

SMOKE SIGNALS

For Radio Amateurs • By Radio Amateurs

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League Calls Rules Enforcement "Dismal," Asks FCC for Action in Several Cases

The ARRL has told the FCC that its recent track record in Amateur Service rules enforcement has been "dismal." In comments on an FCC proposal to adopt a standardized schedule of monetary forfeitures (fines) for rules violations in all services, the League said that while there have been only a few cases in the Amateur Service where prompt enforcement action was needed "badly and quickly," the necessary action did not take place "despite repeated (FCC) promises."

The FCC asked for input on all aspects of a Forfeiture Policy Statement that had been invalidated on procedural grounds in US circuit court last year. The Commission asked for input on the advisability of adopting a standardized forfeiture schedule rather than using a case-by-case approach to setting fines.

The ARRL said that the Commission has probably arrived at a reasonable forfeiture schedule but that *administration* of the schedule is "the more pressing matter." The League said that at issue were whether the fines were sufficient to (1) cause recipients not to violate a particular rule in the future, and (2) deter others from violating the same rule.

The ARRL said that the forfeiture proceeding (in CI Docket 95-6) should be far broader, to include a review of the overall effectiveness of monetary forfeitures as an enforcement tool, given that as presently used such forfeitures are often either ignored or contested.

The League said that in the few cases of amateur rules violations in recent years, FCC promises of action have gone unkept and the problems "persist visibly." The ARRL suggested that forfeiture amounts for amateur rules violations be adhered to (instead of greatly reduced) and that collection efforts be carried through.

The League said that in the past four or five years the Amateur Service has been "very much in need" of FCC assistance in a few specific, persistent enforcement cases, but that almost no assistance has been forthcoming. "The League's representatives have repeatedly met," the ARRL said, "with the commissioners and their staffs, the staff of the Compliance and Information Bureau (CIB) at all levels, and before that with the Field Operations Bureau staff," to seek assistance with a handful of cases that were impossible to resolve cooperatively.

The League cited amateurs' long record of self-policing and said that in recent years, while the ranks of amateurs grew significantly, "it is remarkable how well the tradition of self-enforcement in the Service has been sustained." The League said that over the past three years it has consistently sought action in two cases of "repeated, persistent malicious interference" and other rule violations. "Despite

repeated promises from numerous members of the CIB staff, the Commission has done absolutely nothing to address these two cases.

"The perception," the League said, "in the minds of large numbers, perhaps the majority of active radio amateurs, due to the almost complete absence of any Commission enforcement presence, is that the Commission is a 'paper tiger' when it comes to enforcement of its own rules."

"The irony of the situation is that it would take only a very few, occasional, but visible enforcement actions in the more egregious cases to promote significant compliance results. This has always been the case, and would be today, if there was any effort at deterrence on the Commission's part."

The League went on to say that the FCC has not kept its part of an agreement between it, the FCC, and the Amateur Auxiliary (AA) program, by not using evidence gathered by AA volunteers in enforcement matters. Those volunteers have become demoralized as a result, the League said.

The League said that the FCC is handicapped in its use of forfeitures as an enforcement tool because, while it can quickly assess a forfeiture, it has no ability to collect it. When a notice of apparent liability is issued, if the subject of the forfeiture does not respond or submit payment, the matter goes to the US Attorney General for collection. Red tape ensues and can lengthen the process into years. Even if a fine eventually is paid, there is no public information of the payment, thus there is no deterrent value to others.

As a result of these administrative roadblocks, the League said, the FCC is forced to choose enforcement actions carefully, and there is a "widely held belief" among its licensees, and not just Amateur Radio licensees, that it is highly unlikely that a civil action will ever be instituted to collect a forfeiture assessed by the FCC.

The League cited as an example an ongoing case of malicious interference in the New Orleans area, involving Amateur Radio repeaters, where notices of forfeiture were issued to four amateur licensees two years ago and are still not collected. The ARRL said that the result has been that, since then, the interference problem has grown significantly in that area.

The ARRL suggested that standardizing monetary forfeiture amounts - as the FCC has proposed - could be one solution. Another is following up with actual collection of the fines, perhaps through a procedure for private contractual collection of administrative forfeitures through civil litigation on behalf of the Commission.

- The ARRL Letter, April 3, 1995

Petition Threatens W1AW

A petition for rule making before the FCC would eliminate all one-way transmissions such as code practice and information bulletins on the amateur bands below 30 MHz, including those from W1AW.

The FCC has assigned file number RM-8626 to the petition, which was filed by Frederick O. Maia, W5YI, publisher of the commercial newsletter the *W5YI Report*. The petition seeks to eliminate the rules that permit one-way information bulletins and Morse code practice in the amateur bands below 30 MHz. The effect of the petition would be to silence W1AW bulletin and code practice transmissions, among others.

Maia calls the FCC rule that permits certain one-way transmissions on the amateur bands "a very permissive category and taken in its broadest context, permits just about anything to be transmitted that is

even remotely associated with the Amateur Service."

Maia says that code practice is now available on computer software, and information bulletins about Amateur Radio can be had on various computer on-line services.

Comments on the petition may be sent in the form of a letter to the Secretary, FCC, Washington, DC 20554. The file number, RM-8626, should be shown prominently at the top. An original and five copies is preferred, but single copy comments will be accepted.

A copy should also be sent to Mr. Maia's lawyer, Raymond A. Kowalski, Keller and Heckman, 1001 G Street NW, Washington, DC 20001. The deadline for comments on the petition is May 4, 1995.

- ARRL Bulletin ARLB034, 4/5/95



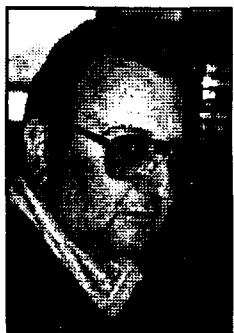
Flashing the Cash

Bob Garske, K9JMP, Poynette, did door duty at the Madison Swapfest, sponsored by the Madison Area Repeater Association, on April 2. Nothing puts a smile on a face like a fistful of dollars (in this photo, it's twenties), as you can see from that happy grin. The swapfest was its usual success, and even got front page coverage in the *Wisconsin State Journal*. The story featured quotes from several hams, including MARA President Jim Waldorf, KB9-AQQ.

- Photo by Jim Romelfanger, K9ZZ

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EDITED BY KENNETH A. EBNETER, K9EN, 822 WAUONA TRAIL, PORTAGE, WI 53901

Swapfests and Other Social Events

SATURDAY, MAY 6, 1995. Ozaukee Radio Club, Swapfest, Cedarburg, WI. Circle B Recreation Center, intersection of highways 60 and county I. Advance admission \$2.00 (\$3.00 at door), Tables: 4 foot \$3.00. Contact: ORC Swapfest committee, W70 N1018 Hampton Ct., Cedarburg, WI 53012.

SATURDAY, MAY 6, 1995. The Arrowhead Radio Amateur Club in Duluth, Minnesota and Superior, Wisconsin will be holding their SWAPFEST 95 on at the Multi-use Facility at the Head of the Lakes Fair grounds in Superior Wisconsin. The address is 4700 Tower Avenue. Doors will open to vendors at 7:00 A.M. with public in at 9:00 A.M. and will run until 2:30 in the afternoon. Tables are \$1.50/foot minimum of 4 feet and admission is \$4.00. Children under 12 are free. For more info contact George (KAOBUM) at 218-729-6882.

SATURDAY, MAY 13, 1995. Lakeshore Hamfest & Computer Swapfest, Manitowoc County Expo., intersection of Hwys 42-151 and I-43 on Cty. highway R. Contact: ManCoRad Radio Club, PO Box 204, Manitowoc, WI 54221-0204, or call Glenn, AA9MT (414) 684-7096 or Red, N9GHE, (414) 684-9097 (nights).

SATURDAY, MAY 27, 1995. Wisconsin Valley Radio Assn. Hamfest, Rothschild, WI. Held at the Rothschild Pavilion, 1104 Park St., Rothschild, WI. Tables; \$4.00, admission; \$2.00 advance or \$3.00 at the door. VE testing for all classes. Contact: Dee Duckett, N9SDM, 6300 Birch Street #49, Schofield, WI 54476. (715) 359-0815.

SATURDAY, MAY 13, 1995. Lakeshore Hamfest. Contact: ManCoRad. PO Box 204, Manitowoc, WI 54221-0204.

SUNDAY, JUNE 11, 1995. Annual Central Wisconsin Radio Amateurs Swapfest (CWRA), Stevens Point, WI. Held at the UW Stevens Point Student Center. FCC VE exams at 9:00 a.m. Fox Hunt at 10:00 a.m. Contact: Art Wysocki, N9BCA, 3356 April Lane, Stevens Point, WI 54481. (715) 344-2984.

FRIDAY, JUNE 16 & SATURDAY, JUNE 17, Electronics Fair 95, Aldrich Arena, Maplewood, MN.

SUNDAY, JULY 2, 1995. Northwoods Amateur Radio Club annual Hamfest, Located in Rhinelander, WI at the Taj Mahall, Head north on Stevens St., to Pueblo Dr., turn left (by Nissan dealer). Contact Northwoods ARC., 5286 Sycamore ST., Rhinelander, WI 54501. (715) 369-5194.

SATURDAY, JULY 8, 1995. South Milwaukee Swapfest, American Legion Park, Shepard Avenue, Oak Creek, WI. Contact SMARC, PO box 102, South Milwaukee, WI 53172. (414) 762-3235.

SATURDAY, JULY 22, 1995 Eau Claire ARC Swapfest, Chippewa Falls WI. Contact: ECARC, PO Box 1867, Eau Claire, WI 54701, or Carol Ceraso, (715) 723-9205 or Liz Searing, (715) 834-1303.

SUNDAY, JULY 23, 1995. Fox River Radio League Hamfest, Sugar Grove, IL.

SUNDAY, JULY 30, 1994. Racine Hamfest, South Hills Country Club, I-94, East Frontage Road, Between Highway 20 and Highway K, Racine, WI. Contact: Racine Megacycle Club, PO Box 3, Racine, WI 53401-0003.

SATURDAY, AUGUST 12, 1995. Northwoods Hamfest, at Sugar Camp town hall near Rhinelander, WI. Contact Mary Berger, NS9Q, 367 Lois St., Rhinelander, WI 54501. (715) 362-9296.

SATURDAY, AUGUST 26, 1994. Riverland Hamfest-Computer Expo and Antique radio show. La Crosse, WI. Contact: Dick Low, KOJYB, 1520 Nakomis Ave., La Crosse, WI 54603. (608) 784-9176.

SUNDAY, AUGUST 27, 1995. Woodstock Hamfest, McHenry County Fairgrounds, Woodstock, IL. Contact: TCRG, PO Box 3107, Skokie, IL, 60076-6107.

SATURDAY, SEPTEMBER 2, 1995. It's true! Mighty little Hayward in northern Wisconsin is holding its first Hamfest on the LABOR DAY week-end from 8AM to 2PM. Free Coffee. Pretty good food. Tables \$10. Tickets \$5.00 Write John Kruk N9UPC PO Box 13160 Hayward, WI 54843 or call 715-634-4940. We have rented the Armory and they do NOT allow tail-gating. Sorry! All sales inside ONLY.

SUNDAY, SEPTEMBER 10, 1995. Iowa Radiofest, Dubuque Hamfest & Computer Expo., Tri-State Blind Society, 3333 Ashbury Road, Dubuque, IA. Contact: Larry Pensel, W0UST, 619 Kaufmann Ave., Dubuque, IA 52001, (319) 588-1085, Loren Heber, NOYHZ, 9479 Lauderville Road, Dubuque, IA 52003. (319) 583-5755, or J. Ehlers, NONLU, (319) 583-1016.

SUNDAY, OCTOBER 15, 1995. Kettle Moraine Radio Amateurs Swapfest, Waukesha County Expo Center. Contact: KMRA Swapfest, PO Box 411, Waukesha, WI 53187-0411.

SATURDAY, NOVEMBER 4, 1995. 11th annual Friendlyfest at the Waukesha County Expo Center, Waukesha, WI. Contact Milwaukee Repeater Club, Inc., PO Box 2123, Milwaukee, WI 53201.

SUNDAY, NOVEMBER 4, 1995. Fox Cities Hamfest, Starlite Club, Hwy 55 North of Kaukauna. Contact: Dan Vanevenhoven, N9LVS, 2410 E Newberry Ct., Appleton, WI 54915. (414) 739-5101.

SUNDAY, JANUARY 14, 1996. 24th Annual Midwinter Swapfest, Waukesha County Expo Center Forum, Waukesha, WI. Contact: WARAC Swapfest, PO Box 1072, Milwaukee, WI. 53201.

TUESDAY, FEBRUARY 27, 1996. Red Cedar Repeater Association, Inc., American Legion Post 53, 634 Water St., Eau Claire, WI. Contact: Steve Hart, KA9OMC, E616 810th Ave., Knapp, WI 54749. (715) 665-2374.

SUNDAY, MARCH 10, 1996. SEWFARS Swapfest, Waukesha County Expo Center, Waukesha, WI. Contact: SEWFARS PO Box 102, Delafield, WI 53018. (414) 789-1034.

See also the back page and flyer ads for additional information on many of these events.

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas. Send information on your event to Kenneth A. Ebnetter, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages. For information on rates and requirements for our advertising pages, please contact K9ZZ or K9EN.

Badger State Smoke Signals

*Amateur Radio
Education and Information*

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Subscriptions

1 year	(12 issues)	\$12.00
2 years	(24 issues - save \$2.00)	\$22.00
3 years	(36 issues - save \$4.00)	\$32.00

Special club package reduced rates are available. For information, contact Ken Ebnetter, K9EN.

When to Send It

The closing date for each issue is the first of the month for the next month's issue. For example, the closing date for the June issue is May 1.

The only exception is for participating clubs. Participating clubs are requested to send their material no later than **FIVE DAYS** after the club's meeting. For example, if a club meets on the 4th of the month, the material should be sent no later than the 9th of that

month. This material is to be sent to the Editor.

Where to Send It

Address changes and corrections should be sent to Ken Ebnetter.

Editorial material, photographs, feature articles, display ads, and exchange papers should be sent to Jim Romelfanger.

Inquiries about advertising should be directed to Ken Ebnetter.

Swapfest information should be sent to Ken Ebnetter. Swapfest ads should be sent to Jim Romelfanger.

Subscriptions should be sent, with check or money order, to Jim Decker.

Conditions for Reprinting or BBS Posting Material from Badger State Smoke Signals

Permission is hereby granted to reprint articles or posting articles on radio or telephone bulletin boards from *Badger State Smoke Signals*, providing credit is given to the original author, publication in which the article first appeared, and to *Badger State Smoke Signals*. **THIS CREDIT IS MANDATORY, AND NO MATERIAL MAY BE PRINTED OR POSTED UNLESS IT IS GIVEN.** This newspaper is produced by volunteer Radio Amateurs, and is non-profit. This newspaper is mailed from Portage, WI 53901. *Badger State Smoke Signals* is incorporated as a Wisconsin non-stock, non-profit organization.

Editorial Disclaimer

The opinions expressed in editorials, guest editorials, columns, articles, and letters from readers are the opinions of the authors only, and do not, unless otherwise stated, express or imply endorsement by *Badger State Smoke Signals*, or by any other individual or organization.

Club Meetings



Due to space limitations, we cannot always carry the full listing of Wisconsin and area club meetings. Please see the January 1995 meetings column for the latest complete listing. The following are additions or changes since that listing.

M & M AMATEUR RADIO CLUB

General meeting held second Thursday each month at 7:00 p.m. at Menominee BAMC 4th floor, Tenth Ave., Menominee, MI 49858.

MANITOWOC COUNTY RADIO AMATEURS

Directors Meeting: First Wed. Held at 7:30 p.m. in the basement, Manitowoc City Hall, 817 Franklin St., Manitowoc.

General meeting: Second Wed. Held at 7:30 p.m. at Associated Manitowoc Bank, corner of 10th and Franklin Streets.

WISCONSIN RAPIDS AMATEUR RADIO CLUB

Third Wednesday, 7:00 p.m. Emergency Government Office, Wood County Court House. Talk-in on 146.79 for entry into the building.

Net on Sundays at 8:00 p.m. on 146.79.

The Test Point



Amateur Radio Examination Locations and Schedules in the Wisconsin Area

May 6, 1995	Racine, WI
May 6, 1995	Cedarburg, WI (BE) Ozaukee Swapfest
May 13, 1995	Madison, WI
May 13, 1995	Oak Creek, WI (SWAT/MRAC)
May 13, 1995	Manitowoc, WI Lakeshore Hamfest
May 13, 1995	Redgranite, WI
May 17, 1995	West Allis, WI (MRAC)
May 20, 1995	Dubuque, IA
May 20, 1995	Loves Park, IL
May 27, 1995	Wauwatosa, WI (MRAC)
May 27, 1995	Tomahawk, WI
May 27, 1995	Rothschild, WI WVRA Hamfest
June 3, 1995	Baraboo, WI
June 3, 1995	Racine, WI
June 3, 1995	River Falls, WI
June 10, 1995	Madison, WI
June 10, 1995	Redgranite, WI
June 11, 1995	Stevens Point, WI CWRA Swapfest
June 21, 1995	West Allis, WI (MRAC)
June 17, 1995	Loves Park, IL
June 24, 1995	Wauwatosa, WI (MRAC)
June 24, 1995	Tomahawk, WI
July 8, 1995	Oak Creek, WI SMARC Hamfest
July 8, 1995	Redgranite, WI
July 19, 1995	West Allis, WI (MRAC)
July 15, 1995	Loves Park, IL
July 29, 1995	Wauwatosa, WI (MRAC)
July 29, 1995	Tomahawk, WI
July 30, 1995	Racine, WI Racine Hamfest
August 5, 1995	River Falls, WI
August 12, 1995	Marshfield, WI Northwoods Hamfest
August 12, 1995	Redgranite, WI
August 16, 1995	West Allis, WI (MRAC)
August 19, 1995	Loves Park, IL
August 26, 1995	Wauwatosa, WI (MRAC)
August 26, 1995	Tomahawk, WI
September 2, 1995	Oak Creek, WI (SWAT/MRAC)
September 2, 1995	Racine, WI
September 9, 1995	Madison, WI
September 9, 1995	Redgranite, WI
September 10, 1995	Dubuque, IA Dubuque Hamfest
September 20, 1995	West Allis, WI (MRAC)
September 16, 1995	Loves Park, IL
September 30, 1995	Wauwatosa, WI (MRAC)
September 30, 1995	Tomahawk, WI
October 7, 1995	Racine, WI
October 7, 1995	River Falls, WI
October 7, 1995	Oak Creek, WI (SWAT/MRAC)
October 14, 1995	Madison, WI
October 14, 1995	Redgranite, WI
October 18, 1995	West Allis, WI (MRAC)
October 21, 1995	Loves Park, IL
October 28, 1995	Wauwatosa, WI (MRAC)
October 28, 1995	Tomahawk, WI
November 4, 1995	Racine, WI
November 4, 1995	Oak Creek, WI (SWAT/MRAC)
November 4, 1995	Menomonie, WI
November 11, 1995	Marshfield, WI
November 11, 1995	Madison, WI
November 11, 1995	Redgranite, WI
November 15, 1995	West Allis, WI (MRAC)
November 18, 1995	Dubuque, IA
November 18, 1995	Loves Park, IL
November 25, 1995	Wauwatosa, WI (MRAC)
December 2, 1995	Oak Creek, WI (SWAT/MRAC)
December 2, 1995	Racine, WI
December 2, 1995	River Falls, WI
December 2, 1995	Stevens Point, WI
December 9, 1995	Madison, WI
December 9, 1995	Redgranite, WI
December 20, 1995	West Allis, WI (MRAC)
December 16, 1995	Loves Park, IL

Monthly, 1st Sat. Racine, WI
(except January, July & August)
Monthly, 1st Sat. Oak Creek, WI (SWAT/MRAC)
(except May, June, July & August)
Monthly, 2nd Sat. Madison, WI

Monthly, 2nd Sat. Redgranite
Monthly, 3rd Wed. West Allis, WI (MRAC)
Monthly, 3rd Sat. Loves Park, IL
Monthly, Last Sat. Wauwatosa, WI (MRAC)
(except December)
Monthly, Last Sat. Tomahawk, WI
(January thru October only)
Quarterly Marshfield, WI
(Second Saturday every third month.)

Many Swapfests/Hamfests offer exam sessions. If not shown above contact the sponsoring club in the Swapfest column on page 2.

The FCC now requires applicants to show their ORIGINAL AMATEUR LICENSE to the VEC. A copy of your license must be attached to your FCC form 610. You will also be required to have a photo ID, or other acceptable identification.

GENERAL RULES FOR MOST EXAMINATIONS:

Be sure to check with sponsors in the event there are changes and/or errors in the dates or information given.

Some examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walk-ins. Check with sponsor.)

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an FCC Field Office, the ARRL. Send a 32c/ SASE if you request one from the ARRL. In most cases, forms can also be obtained from the sponsoring group.

ARRL/VEC examinations require a check for \$5.90 payable to "ARRL/VEC".

The FCC now requires applicants to show their ORIGINAL AMATEUR LICENSE or CSCE to the VEC. You must also have two good copies of your license or CSCE. A copy of your license or CSCE must be attached to your FCC form 610 and most VEC want a copy for their records. You will also be required to have a photo ID, or other acceptable identification.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

MILWAUKEE RADIO AMATEURS' CLUB (MRAC/VEC) OAK CREEK, WI (SWAT-MRAC/VEC)

FIRST SATURDAY DATES (No exams June, July or August. May exam on 2nd sat at 1:00 p.m.): 3:30 p.m. at 6560 S. 27th St., Oak Creek, WI. (2 -blocks south of College.) (MRAC fee \$5.00)

THIRD WEDNESDAY DATES: At 6:30 p.m. Manor at Park, 3023 S 84th St., West Allis, WI.

LAST SATURDAY DATES (except December): 9:00 a.m. at 7500 W. State St., Wauwatosa S&L, lower level, Wauwatosa, WI.

For Additional Information Contact; Jack Krause, (414) 774-6999 or call (414) 466-HAMS (Answering Machine) or write MRAC, 1737 N. 116th St., Wauwatosa, WI 53226.

Bring along your ORIGINAL license, CSCE and two (2) good quality photocopies, plus two forms of identification, such a driver's license, etc. Also required is \$5.00 for the exam fee. WALK-INS are welcome. To register in advance, use a post card: print the grade of license you are applying for, and your name, address, and telephone number. Send the card to MRAC/VEC, c/o Jack Krause, W9JK, or Les Peterson, W9YCV at the addresses shown above.

BADGER EXAMINERS (BE) - MILWAUKEE

Amateur exams: 1:00 p.m. to 4:00 p.m. Commercial exams: 9:00 a.m. to 12:00 noon.

Unless otherwise noted at WMVS-TV studios, MATC Downtown campus in the C building. The address is 1036 N. 8th Street, Milwaukee. Enter at the North West entrance of C Building. Walk-ins are welcome. To register in advance, send a post card with your name, test or tests you wish to take, date you wish to take., your call sign, address and telephone number to Badger Examiners, Gary J. Sharbuno, WI9M, 5119 W. Willow Rd., Brown Deer, WI 53223. Telephone (414) 355-0237.

Also available FCC General Radio Telephone Commercial exams. Fees are \$5.90 for the Amateur Radio exams and \$35.00 for the commercial exams.

MADISON, WI

VE exams are held in Madison every second Saturday morning (September through May) of the month at 8 a.m. They are held at the operations building of the Madison Metropolitan Sewerage

District at 1610 Moorland Rd. To get there take the Beltline (Hwy 12 & 18) to South Towne Drive. Go south 8/10 mile till South Towne Drive makes a bend and becomes Moorland Rd. and enter at gate.

You should bring a picture ID, your original licence and a copy of your licence. For exams beyond the novice tests, bring a check for \$5.90, made out to the ARRL/VEC. If the special 610 form with the medical exemption is required, contact me beforehand to obtain one. No appointments are necessary to take exams. For further questions, please leave a message on the mailbox or phone me at (608) 832-6631.

Mark Jenks, N29B

RIVER FALLS, WI

Held in the church basement at the United Methodist Church, 127 South 2nd St., River Falls, WI. Contact: Chuck Kelly, KA9YRV, 234 W Cascade Ave., River Falls, WI 54022.

REDGRANITE, WI (W5YI VEC)

Test sessions are held in Redgranite on the second Saturday of each month, at the Civic Center, 202 Pine River rd., just off Highway 21. Testing begins at 9:00 a.m. Breakfast meeting at 8:00 a.m. at the Curve on Highway 21 prior to testing session. All Amateurs are welcome at the breakfast. Contact Terry Lynn Witt, AA9BA, 9145 Ivy Lane, Berlin, WI 54923.

RACINE, WISCONSIN - ARRL/VEC

Monthly - first Saturday, except January, July, and August.

Monthly exams are given 9:00 to 11:00 a.m. at the Red Cross Building, 4521 Taylor Avenue, Racine. Walk-ins are permitted.

Inquiries and registrations should be directed to William Firchow, Jr., NW9P, 1912 27th Street, Kenosha, WI 53140, telephone (414) 658-8390.

TOMAHAWK, WI

Last Saturday of every month. Jan. thru Oct.

Tomahawk Volunteer Examiners (ARRL/VEC). Tomahawk, WI. No preregistration required, but appointment would be appreciated. Registration at 8:30 a.m. and testings starts at 9:00 a.m. For location or other information, inquire on 145.43 MHz. repeater or contact: Terry Collins, KB9AUP, W6564 Highway 8, Tomahawk, WI 54487. Telephone (715) 453-4633.

STEVENS POINT, WI

Contact: Joe Larson, N9JW. (715) 344-1182.

APPLETON, WI - ARRL/VEC

MANITOWOC, WI (HAMFEST)

KAUKAUNA, WI (HAMFEST)

Conducted by the Fox Cities ARC VE team. All test session in Appleton are held at James Madison Jr. High, 2020 S. Carpenter Street. Candidates check in between 8 and 9 a.m. with testing starting at 9 a.m. No walk-ins after 9 a.m. Contact George R. Croy, W9MDP, 2113 Twin Willows Drive, Appleton, WI 54914. (414) 730-0967.

MENOMONIE, WI

The Menomonie VEC will be sponsoring exams from 9:00 to 11:30 a.m. at the UW Stout Communication Center, 820 South Broadway, Menomonie, WI. Use the north entrance. Walk-ins only. Contact Jim Ley, NX9F. Work: (715) 232-1397, Home: (715) 235-3998.

MARSHFIELD, WI (ARRL/VEC)

Sponsored by the Marshfield Area ARS. Held at St. Joseph Hospital, 611 St. Joseph Ave., in the 1 West classroom located adjacent to the Westwood Cafeteria on the main floor of the hospital. Use the main entrance or any other entrance and follow the signs to the cafeteria. Registration starts at 8:30 a.m. with testing starting at 9:00 a.m. Talk in on the 147.18 Marshfield repeater. Walk-ins welcome. Contact: Walter Friant, WBOKIN, 2310 Wallonie Drive, Marshfield, WI 54449 (715) 387-3870.

GREEN BAY, WI (ARRL/VEC)

Contact N9NOF, Keith Summers, 918 Bluebird St., De Pere, WI 54115. (414) 336-6087, after 4:00 p.m.

CEDARBURG, WI - ORC HAMFEST

EAU CLAIRE, WI - ECARC HAMFEST

GREEN BAY, WI - ARES HAMFEST

KAUKAUNA, WI - SWAPFEST

MANITOWOC, WI, LAKESHORE HAMFEST

MARSHFIELD, WI - HAMFEST

OAK CREEK, WI - SMARC HAMFEST

(continued on page 15)

Wisconsin Nets Association Ltd.

Art Evans, KA9KLZ, Secretary • 213 North Jefferson • Cuba City, WI 53807

Section Manager's Notes



Richard R. Regent, K9GDF
5003 South 26th Street
Milwaukee, WI 53221

QCWA Chapter 55 will have dinner and meeting June 3rd at Two Rivers Machut's Super Club. June 11 Northwoods ARC Hamfest.

June 13 West Allis RAC club program will be past field days with pictures, slides and videos from K9BTQ.

June 18 Central Wisconsin RA Swapfest in Stevens Point, with WNA meeting after WAPR meeting.

Invite newspaper, radio, other media to observe club activity in Field Day on June 24 and 25; Milwaukee RAC will be operating from Pioneer Village in Cedarburg.

June 29 and 30 Watertown ARC will provide communications for Ixonia Centennial.

W9CBE of McFarland is new Assistant STM.

Newly coordinated repeaters: Granton 146.175 MHz, West Bend 222.220, Cedarburg 447.100, Fort Atkinson 447.300 and Rice Lake 448.700.

New officers Tri County ARC are: pres N9-DTT, vp WA9VYL, treas N9PGY, secy N9DTV and club is testing new repeater transmitter.

Join Milwaukee RAC for breakfast Saturdays, 8:30 a.m. at Maxim's, 92nd and Appleton.

DXCC Field Representative NZ9Z is looking for applicants.

NG9V is Awards Manager for the Four Lakes

Wisconsin Nets

Net	WNA	Freq.	UTC	CDT	Mgr.
BWN	Yes	3985	1100	0600	W9AYK
BEN	Yes	3985	1700	1200	KE9VU
WSBN	Yes	3985	2230	1730	K9UTQ
WNN	Yes	3723	2300	1800	KA9FVX
WSSN	Yes	3645	2330	1830	N9BDL
WIN/E	Yes	3662	0000	1900	WB9ICH
WIN/L	Yes	3662	0300	2200	W9NGP
NWTN	Yes	34/94	2330	1830	NS9Q
(Rhinelander area)					
RCRA	No	01/61	2330	1830	KA9OMC
(Mondays CDT) (Menomonie Area)					
Gr. Bay	No	72/12	0145	2045	WB9NRK
(Green Bay Area)					
ARES	No	4.65/5.25	0100	2000	
(South East/South Central Wisconsin)					
RACES	No	3993.5	1300	0800	WA9OAY
(LSB Sunday)					

ARC and can validate WAS and 5-Band WAS in the Madison area.

N9LTA is new TS.

Adams County ARC already has 37 members says president N9TD.

St. Croix Valley RA has weekly breakfast Saturday, 8:00 a.m., check with KB9BTB for locations on 145.13 MHz.

Exams: June 3 Racine, River Falls; June 10 Madison, Redgranite; June 11 Stevens Point; June 21 West Allis; June 24 Wauwatosa, Tomahawk.

Let me know about your events and activities. Sorry to report Silent Key K8IFE (Friendship).

Thought of the month: *Opportunity always knocks at the least opportune moment.* □

NET NEWS AND GOSSIP

Wisconsin Intrastate Net/Late (WIN/L)

Ed Rice, W9NGP, Net Manager
W126 Lang Road
Oconomowoc, WI 53066

The WIN/L still functions, despite very poor conditions all winter. Our QNI for the first quarter of 1995 is down 25% from last year. QTC is down 34%. But, conditions are improving now, and we look forward to better ratings.

Our net controls, starting with Sunday, are: AG9G, W9CBE, W9UW, W9YCV, W9NGP, N9KHD, and N9BDL. The 9RN chores are handled by W9YCV, N9KHD, W9CBE, and N9CKC. My thanks go out to these operators. Without them, there would be no WIN/L.

N9DHR, Ade, is checking in again, and we appreciate that. Keep it up, Ade. We need all the help we can get.

73, Ed

The Best of Beasley

by Robert Beasley, K6BJH

"Oh, to see ourselves as others see us..." A wacky view of Amateur Radio through the eyes of a very clever cartoonist (his original works appear here in BSSS). The cartoons in "The Best of Beasley" were originally published in *Worldradio*. A great gift for a fellow amateur. 112 pp. \$8.00 plus \$2.00 shipping and handling. (\$4.00 for non-US ZIP air delivery.) CA residents add tax. Order from Worldradio Books, P.O. Box 189490, Sacramento, CA 95818.

Coast Guard No Code

By Richard Regent, K9GDF
5003 South 26th Street, Milwaukee, WI 53221

The U.S. Coast Guard stopped using Morse code on March 31, 1995, after nearly a century of monitoring for telegraph distress calls. New technology, such as satellites, digital modes and computers, has made the code developed by Samuel Morse in 1837 obsolete. Ship operators can simply talk on what looks like a telephone, through satellites, directly to the Coast Guard or send megabytes of digital data with a computer.

Colonel Adolph Keys of the Coast Guard wrote the final Morse message sent. It talks about the history of the use of Morse Code. For a limited time, only the Guam station, and some ships will continue to use the Code. Some veteran radio operators were disappointed when dots and dashes gave way to high-tech means of communicating because their ship board skills in the code will not be as valuable and they gave up the personal touch. Keys answered the question why we use code, "It's like why a sailor uses the sails instead of just turning on the engines. It's better, more reliable and efficient." Code comes from one person's hand, through the air and into another person's ear; breaking the language barrier.

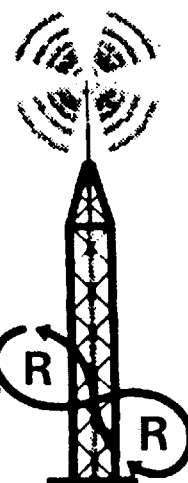
Dave Sumner, K1ZZ of the ARRL, says, "It is a medium of last resort. You can use a flashlight to send code. Air Force fliers in Viet Nam as prisoners of war would pound on their cells with code to discover they could communicate. Code takes less power. It's fun for about 125,000 Amateur Radio operators who will still use code."

On this last code day, the Coast Guard station at Chesapeake station in Norfolk, Virginia, some ship radio operators call in one last time to bid farewell with their messages in code. The Coast Guard service stopped its Morse code training during 1994 and changed its radioman title to telecommunications technician.

Radio station WUWM-FM, 89.7 MHz in Milwaukee, had closing credits to the *All Things Considered* program (where I heard most of this information) sent with code. It took quite a while to send all the titles and names but then it ended with "73" marking an end for an age at sea. □

ELMER

By Rich Regent, K9GDF



RADIO RECYCLERS

Neil Lawton, WK9Q
7730 W. National Ave.
West Allis, WI 53214
(414) 771-7121

Open Monday, Tuesday,
Wednesday, and Friday
from 10 - 5
Saturday 10 - 2

Mail a card with your list of
wants and your phone
number to be added to our
computer data base!

USED AMATEUR RADIO EQUIPMENT

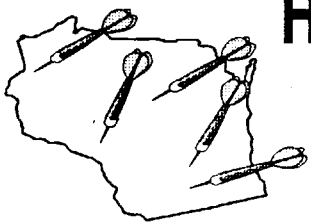
WE BUY, SELL, AND TRADE
CONSIGNMENTS ACCEPTED

We buy, sell, and repair antique clocks

X Ham Radio gear traded for clocks

X Clocks traded for Ham Radio gear

OUR STOCK CHANGES OFTEN!



HERE and THERE

WI Helps PA

The 1994 *Pennsylvania QSO Party*, a great success, had 497 different stations competing with 625 logs (each mobile county is a log) submitted. W2WOE of Lake Geneva had 119 CW and 174 SSB contacts in 63 Pennsylvania counties, scoring 6th place for the out-of-state contest division and 1st place for Wisconsin.

Other operators from Wisconsin listed in the results are WB9QFX (1 CW and 99 SSB QSOs), W9HE (46 CW), KA9USV (34 SSB) and K9GDF (10 CW). You can test your new antenna or give your equipment a workout in the 35th Annual Pennsylvania QSO Party that will be October 14 and 15, 1995. See *QST Contest Coral* for details, or contact the Nittany Amateur Radio Club, PO Box 614, State College, PA 16804-0614.

- Richard Regent, K9GDF

FCC Won't Reconsider Amateur Radio Licensing Structure

The FCC has denied a petition for reconsideration to change the structure of Amateur Radio licensing in the US.

Rolf Jespersen, N3LA, had petitioned the FCC to establish three classes of amateur operator license, a petition the commission denied in April 1994 (RM-8391).

Jespersen then petitioned for reconsideration, saying that supporters of his position did not know when to file supporting comments and that telegraphy "ability," not necessarily telegraphy "proficiency," should be the criterion for the class of operator license obtained. He also said that his suggested new rules would promote growth in the amateur community and reduce delays in obtaining new and upgraded licenses.

The FCC said that Jespersen's original petition was denied because there was insufficient evidence to justify revisiting the issues he raised, and that no comments had been filed on his petition.

The FCC said that it had revisited the structure of the amateur service on several occasions, the latest being in 1990, when the codeless Technician Class license was established "and the amateur community confirmed its preference of preserving telegraphy as an examination requirement for the remaining operator license classes."

"The amateur service community in the United States generally considers the current telegraphy speed requirements as necessary and appropriate," the FCC said.

- ARRL Bulletin ARLB035, 4/5/95

U.S. Grant to Ukraine

Ukrainian amateur radio operators will benefit from a 24,987 dollar grant from the US Agency for International Development.

Silent Key

James W. (Jim) Stone, K9JVP, Mount Horeb, 63, died April 3, 1995 in a Madison hospital. Jim had served as ARES Emergency Coordinator for Dane County, and was active in the Amateur Radio/National Weather Service Skywarn severe weather spotters' program. He is survived by his wife, Vivian, a son, Andrew of Madison, and a daughter, Jenifer Stone of Mount Horeb.

The grant, from USAID through the Eurasia Foundation, was obtained by a proposal made by the Foundation for Amateur International Radio Service, a nonprofit public foundation founded in May 1991. FAIRS has charter groups in Ukraine, Guyana, Bangladesh, and Russia.

The grant will fund electronics hardware to extend APLINK coverage to Kiev from the western Ukraine, with nodes also going to Hungary, The Czech Republic, and Poland. An INTERNET gateway also is planned, as well as an additional APLINK station and an FM repeater in western Ukraine.

Delivery of the equipment is expected by early summer, and will include hardware for seven digipeater nodes, including terminal node controllers, radios, and antennas. About 35 Ukrainian amateurs have packet capability in the current APLINK system.

The FAIRS grant proposal was written by Executive Director David Larsen, KK4WW, and European Director Victor Goncharsky, US5WE.

A previous FAIRS project, training of prospective amateurs in Bangladesh, was described in September 1993 *QST*, on page 86.

- ARRL Bulletin ARLX017, 4/10/95

Balloon Launch Postponed to May

The balloon-carried Amateur Radio experiment, which had been scheduled for an April launch from the Hillsboro area, has been put on "hold", and is expected to lift off some time in early May, according to a packet bulletin. At press time, the date was exact, but the crew was expecting to launch the balloon and package possibly the first weekend in May.

More Calls for Some Areas

According to a new FCC fact sheet, an ARRL request for call sign relief for amateurs in Hawaii, Alaska, and Puerto Rico has been honored.

The "amateur station sequential call sign system" fact sheet dated February 1995 replaces one dated June 1991 that is referenced in the FCC's recent vanity call sign report and order.

The new fact sheet incorporates changes that the League asked for in November 1993, expanding the opportunities for amateurs in Alaska, Hawaii, and Puerto Rico to obtain call signs that reflect their geographic location.

According to the new fact sheet, call signs in

Please turn to page 8

SAREX Frequency Changes

Space Shuttle flight STS-71, to be launched in June, is the first to feature a docking between the Shuttle and the Russian Mir space station. Special Shuttle Amateur Radio EXperiment (SAREX) voice frequencies will be used.

The special frequencies are: **Downlink:** 145.84 MHz worldwide; and **Uplinks:** 144.45 and 144.47 MHz worldwide.

SAREX and Mir Amateur Radio stations normally share the same downlink frequency, which would cause interference on the STS-71 mission. Because of this and lessons learned from using particular frequencies during previous SAREX missions, the SAREX Working Group has made these changes for STS-71. The new frequencies were chosen after much deliberation to minimize interference between SAREX, Mir, and terrestrial stations.

Most SAREX operations are split frequency, with a downlink (astronauts transmitting to Earth stations) and an uplink (Earth stations transmitting to astronauts). Listen to the downlink and transmit only when the shuttle is in range and astronauts are on the air.

Mir operations are simplex and remain on 145.55 MHz.

Before transmitting, listen to the SAREX uplink to avoid interfering with others, and listen for the astronauts' instructions about frequencies they're using. They won't favor a specific uplink, and your ability to work them will be "the luck of the draw."

If these special SAREX frequencies prove acceptable, they will be used for future docking missions. If you have comments, send them to AMSAT's Frank Bauer, KA3HDO, at his Callbook address, or to the ARRL Educational Activities Department.

Please note that there is a strong chance that STS-70 will fly before STS-71; if so, STS-70 will use the regular SAREX frequencies.

- ARRL Bulletin ARLS005, 4/5/95

FCC Call Sign Update

The following is a list of the FCC's most recently issued call signs as of April 1.

District	Group A Extra	Group B Advanced	Group C Tech/Gen	Group D Novice
0	AA0WZ	KG0VF	++	KB0RVU
1	AA1MX	KE1AZ	N1USY	KB1BOI
2	AA2WW	KG2CB	++	KB2UCB
3	AA3LD	KE3SJ	N3UXM	KB3BHC
4	AE4GC	KS4TL	++	KE4YMF
5	AC5BV	KK5NB	++	KE5NRI
6	AC6LV	KO6TA	++	KE6SNC
7	AB7JE	KJ7MD	++	KC7JYT
8	AA8TA	KG8QJ	++	KB8YOE
9	AA9OG	KG9BH	++	KB9JVL
N. Mariana	KH0Q	AH0AV	KH0DW	WH0ABC
Guam	WH2M	AH2CZ	KH2NM	++
Midway	++	AH4AA	KH4AG	WH4AAH
Hawaii	++	AH6OB	++	WH6CUD
Am. Samoa	AH8N	AH8AH	KH8CG	WH8ABB
Alaska	++	AL7PZ	++	WL7CLX
Virgin	WP2R	KP2CD	NP2IA	WP2AHV
Puerto Rico	++	KP4ZC	++	WP4MXF

+ + A call signs in this group have been issued in this area.

- ARRL Bulletin ARLB038, 4/17/95

Badger State Smoke Signals



BADGER STATE SMOKE SIGNALS

Subscription Form • Regular Individual Subscription Rates

1 Year: \$12.00 • 2 Years: \$22.00 (save \$2.00) • 3 Years: \$32.00 (save \$4.00)

PLEASE PRINT!

Name: _____ Call Sign (if any): _____

Address: _____ City: _____ State: _____ ZIP: _____

☐ 1 Year ☐ 2 Years ☐ 3 Years ☐ New ☐ Renewal

Send this form, with your check or money order, to Jim Decker, WB9UQT, Treasurer, P.O. Box 337, Baraboo, WI 53913-0337. Please do NOT send cash!

May 1995

The Computer Corner

By Stan Kaplan, WB9RQR
105 Martin Drive
Port Washington, WI 53074-9654
(414) 284-9346

THE COMPUTER CORNER #20: VIRUSES, A REQUEST, AND REDIRECTION

Well, I have changed my QTH (my excuse for missing a month's Computer Corner), and all the pertinent data is shown above. To start this, the 20th in the series, I would like to share a short letter that I received in February:

Dear Stan,

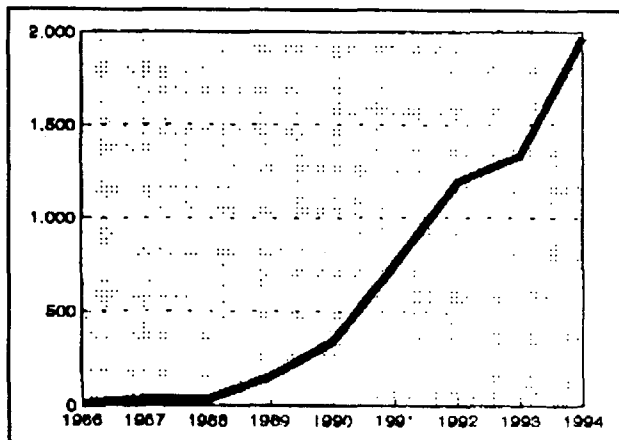
Read your computer article about virus protection and I took the doctor's advice a few weeks ago. Put VSAFE on both my PCs.

Last night I was checking directories on several disks and got the virus warning red screen. It didn't list which virus, but I detected and cleaned the disk.

It was a practice disk I got from an Executrain Course I took for Harvard Graphics 3.0. My computer is still healthy; thanks for the prescription.

73, Richard, K9GDF

So, at least one person, our own SM, took my advice and was saved the grief of a virus infection because of VSAFE. Are you likely to encounter a virus? Well, take a look at the graph below, which shows the approximate number of viruses authored each year since 1986 (data courtesy of Norman Data Defense Systems, Inc., 2775-B Hartland Road, Falls Church, VA 22043-3529). If the trend continues, your chance of encountering a virus nearly doubles each year. Take heed!



A request. In the move to new quarters, I have misplaced my copies of BSSS which carried Computer Corner #1 (NASA tech briefs), 2 (Floppy disk sizes), 3 (floppy disk compatibility, formatting), 4 (floppy disk formats) and 16 (Worrying About Memory). If anyone has those issues, I would appreciate borrowing them long enough to make a photocopy of the articles. Thanks!

Did you ever have to create a tiny file, let's say just a few words, in a hurry, and had to load your word processor for the job? Did you know you could create, and even print your file right from DOS? You can do it by using redirection. Redirection is not a DOS command, it is just a technique by which you redirect the results of a DOS command to a different destination. For example, when you give the DIR command, the output of the command is normally sent to the screen. But if you wish, you can have the results sent to the printer, instead. For example, the command

DIR > PRN

will send the directory right to your printer (you had better have it on, or you will get an error message!) and you will not see it on the screen. This is because the > (right carat command line operator) tells DOS that you intend to redirect the output of DIR to PRN. PRN is a name DOS understands to mean the System Printer. Go ahead, try it. It works.

By the same token, you can capture the output of DIR in a file. The command

DIR > MYFILE

will create a new file called MYFILE which contains in it the output of the DIR command. I just did it.

Now, on to creating that tiny file without any word processor. Basically, you need a way to redirect anything you type on the keyboard into a newly created file. You can't use the right carat command operator (>) because DOS needs a little more information than that. The COPY command will do the trick. Don't worry about whether or not you have the DOS file COPY. You do. It is buried inside COMMAND.COM. Here is the command:

COPY CON MYFILE

You have told DOS to COPY anything on the CONSOLE into a new file called MYFILE. The CONSOLE normally has as its input the keyboard, and its output the screen. You have told it to also put the typed stuff in MYFILE.

When you give the command above, the cursor will suddenly appear on the next line, and nothing will happen. Now type: These words are in MYFILE.

Next, you need to tell DOS you are done. Press F6 (or ^Z, which means hold the control key down while you press the letter Z). That ends and closes the file, and you will see the ^Z echoed on the screen. Now do a DIR. A new file called MYFILE is there. Give the command: TYPE MYFILE and its contents will appear. There you have it, a tiny file with "These words are in MYFILE." in it.

You can also change your computer into a typewriter with redirection! Give the command

COPY CON PRN

and the cursor will pop down a line. Type a few lines of text using the ENTER key after each line. Now press ^Z to quit. How about that. A typewriter! Now, when you want to connect to Stan's packet station and you are tired of typing the path each time, you can do this:

COPY CON YAPP.DIR

and then this:

Stan WB9RQR v N9PBY ^Z

Then, when you are in YAPP, press Alt-C, and you will be prompted for a name. Type Stan, and YAPP will get the proper path from the file. Isn't computing wonderful?

By the way, the path shown above is correct if you are close. Otherwise:

WB9RQR @ N9PBY.EN63FF.WI.USA.NA

I would be pleased to hear from you if you like (or dislike) this series, or if you have special hardware or software topics you would like me to address.

73, Stan

Reprinted, by permission, from the ORC Newsletter, Ozaukee Radio Club, P.O. Box 13, Port Washington, Wisconsin 53074 (Ray Meyer, N9PBY, Editor).

BIDS SOLICITED FOR BEAM

The Riverland Amateur Radio Club has a used Mosely TA-33 beam to be sold by sealed bid. Bids will be opened on June 1, 1995. For further information, call Bruce Bjerstedt, K9CUT, at (608) 782-4349. The club reserves the right to accept or reject any or all bids.

Extra Segment on AM Band

By Richard R. Regent, K9GDF
5003 South 26th Street, Milwaukee, WI 53221

The upper limit of the AM broadcasting band has been expanded from above 1600 on up to 1700 kHz and is now open. There were 688 applicants for the new segment, but only 79 were FCC approved. Equipment tests may begin in late Spring with some regular operation in Autumn. Two Wisconsin broadcast stations have received permission to operate within the segment. They are WNNO in Wisconsin Dells that will shift from 900 to 1660 kHz and WKSH in Sussex moving from 1370 to 1700 kHz.

These stations may simulcast on the old and new frequencies for up to five years after starting on the new frequency, but then must leave the old frequency. New segment movers will use 10 kW day and 1 kW night with nondirectional antennas day and night.

Sometimes frequencies above 1500 kHz are more like short waves. Many radio listeners prefer FM because fading and fluttery AM reception at night is annoying. So maybe this new segment will lure some fickle listeners back. There are reasons to extend the high end of the AM band: to escape the crowded shared frequencies, reduce night interference and require less power for night coverage. Broadcasts in the new segment will sound more like the clear channels of 40 years ago; remember 640, 760, 770, 830, 880 and such?

Traveler Information Services (TIS) now use some of this new AM segment. They use low power and have short range to give directions and information to motorists. We have two on 1610 kHz at the Milwaukee County Stadium Traffic Information System and at General Mitchell International Airport. Do I also remember one at the Horicon Marsh area?

In the 1950s, police radios used frequencies at the top of the AM radio dial between 1600 and the 160-meter band. We could sometimes hear Milwaukee Police transmissions, "Car five, call your station." Officers would reply using telephones in call boxes located on various street corners.

It surprised me to find that my car and my wife's car radios can receive up to 1710 kHz on the AM band. The FCC might require that all new AM radios cover 530 through 1710, much like they did with UHF capabilities for VHF televisions. Although this new AM segment may at first be monitored by SWLs and some amateurs, it will eventually be the public that makes it commercially feasible when they tune in to listen.

Why stop at 1700 kHz? Let's not forget the segments where there's still some good AM broadcasts on shortwave too. Wouldn't you like to have a car radio with general coverage up to about 25 MHz? Keep listening.

(Editor's note: See the New Products section in this issue.)

New Club Licenses Surface

The FCC's Gettysburg License Processing Facility has begun issuing new amateur radio club station licenses. The first ones appear to have been issued on April 4.

These licenses come with systematically issued group D call signs, obtaining such a license and call sign is a necessary first step toward later obtaining a vanity call sign for a club.

For more information, see QST for April 1995, page 41, and for May 1995, page 95.

- ARRL Bulletin ARLB037, 4/11/95

Are you or is your club doing something interesting in Amateur Radio? Our readers would be interested, too! Send a story, and photos, if possible, to the editor. Thanks!

WISCONSIN REPEATER DIRECTORY

Courtesy of the Wisconsin Association of Repeaters

The WISCONSIN ASSOCIATION OF REPEATERS is an organization of trustees and representatives of repeaters, state-wide, whose goal is mutual cooperation on the VHF UHF spectrum, in the voluntary spirit of Amateur Radio.



GENERAL FREQUENCY COORDINATION POLICIES

1. We attempt to place no two repeaters on the same pair closer than 120 miles.
2. We attempt to place no repeater on a 15 kHz split pair closer than 40 miles to any adjacent 30 kHz standard spacing machine.
3. We not only assist proposed repeaters in finding a frequency where possible, but we actively attempt to protect coordinated repeaters' frequencies from interference whenever possible.
4. W.A.R. has suggested band plans for most of the FM spectrum, a subaudible tone plan for the State of Wisconsin and all necessary information for coordination of new or modifications to existing repeaters. Contact the Frequency Coordinator, Scot Thompson, WB0WOT, Wisconsin Association of Repeaters, W7137 770th Ave., Beldenville, WI 54003.

Key to Codes

O Carrier Access	PL Sub-Audible Continuous Tone
T Touchtone	C Closed Private Repeater
A Autopatch	(CA) Closed Private Autopatch
E Emergency Power	L Link and/or Crossband
P Portable	R RACES Affiliated
Z Autopatch to Law Enforcement	X Wide Area Coverage

Wisconsin Sub-Audible Tone Plan By Region

North Central - 2A, 114.8 Hz	North East - 1B, 107.2 Hz
North West - 2Z, 110.9 Hz	South Central - 3Z, 123.0 Hz
South East - 3A, 127.3 Hz	South West - 3B, 131.8 Hz

Standard Inputs Unless Otherwise Noted

- 1.700 MHz for 6 Meters
- 600 KHz below 147.00 MHz, +600 KHz to 148.00 MHz for 2 Meters
- 1.6 MHz for 220 MHz, and +5 MHz for 440 MHz
- 421.25 MHz TV Video + 18 MHz 425.75 MHz TV Aural, +9 MHz

Location	Rg	Output	Call	Access	Update OK=*	Sponsor	Updated
ADAMS	NC	145.290	K9CJM/R	O		ACARC	01/16/95
ALGOMA	NE	146.805	WB9RJB/R	O PL 107.2 L		WB9RJB	03/14/92
ALLENTON	SE	442.350	N9GMT/R	O A E L X PL 114.8		LNFM 38	11/08/93
ANTIGO	NC	53.050	N9QMP/R	O USE -1 Mhz NOW		N9QMP	11/22/93
ANTIGO	NC	145.310	KD9HH/R	O A E Z		KD9HH	04/10/94
APPLETON	NE	145.150	WD9FLJ/R	O CA E Z PL 107.2		O CO REDX	01/15/95
APPLETON	NE	145.330	WD9FLJ/R	O PL 107.2		F V VHF A	01/15/95
APPLETON	NE	146.655	KB9ENO/R	O A PL 107.2		ECR LTD	04/10/94
APPLETON	NE	146.760	K9OQO/R	O E PL 100.0 X R		F V VHF A	01/15/95
APPLETON	NE	147.195	N9PAO/R	O PL 107.2/114.8		VRG	07/26/94
APPLETON	NE	443.650	W9IE1/R	O		* F V VHF	01/15/95
APPLETON	NE	1282.200	N9LVS/R	O E L		N9LVS	04/04/93
ASHLAND	NW	52.950	KB9AMY/R	O		* KB9AMY	02/06/95
ASHLAND	NW	145.350	KB9AMY/R	O		* KB9AMY	02/06/95
ASHLAND	NW	442.350	KB9AMY/R	O		* KB9AMY	02/06/95
BARABOO	SC	145.310	N9KXX/R	O PL 123.0		N9KXX	04/10/94
BARABOO	SC	146.880	K9YXW/R	O E X PL 123.0		C W R A	04/29/92
BARABOO	SC	147.315	N9QIP/R	O PL E X L W.I.N.		N9QIP	05/25/94
BARABOO	SC	224.660	KE9KX/R	O TT-200		KE9KX	12/17/94
BARABOO	SC	442.950	KE9KX/R	O PL 123.0		KE9KX	12/17/94
BARABOO	SC	443.900	N9FBF/R	O A L PL 114.8		LFM 38	12/11/93
BARABOO	SC	444.250	N9KXX/R	O PL 123.0		BSRG	04/10/94
BAYFIELD	NW	146.610	W9BCY/R	O		NLAND ARC	04/10/94
BELDENVILLE	NW	147.225	WB0WOT/R	O A E PL		B.A.T.S.	04/10/94
BELDENVILLE	NW	224.840	WB0WOT/R	O A E PL		B.A.T.S.	04/10/94
BELDENVILLE	NW	443.225	WB0WOT/R	O A E PL		B.A.T.S.	04/10/94
BELOIT	SC	146.670	WA9JTX/R	O ER PL 123.0 OR 77		BELOIT AR	05/09/94
BELOIT	SC	224.300	N9BUL/R	O TT		C.B.S. RG	07/01/94
BERLIN	SC	145.210	N9PSC/R	O		N9PSC	09/05/94
BERLIN	SC	443.850	N9AOZ/R	O A PL 123.0		N9AOZ	05/09/94
BLUFF SIDING	SW	146.835	WB0BD1/R	O		WARC	09/09/94
BURLINGTON	SE	146.745	WB9CAS/R	OZA 127.3 L145.290		WB9CAS	06/11/93
CALEDONIA	SE	442.500	WA9KVE/R	O PL 127.3		WA9KVE	06/21/93
CADERON	NW	443.650	N9KOR/R	O E CA		N9KOR	04/10/94
CEDARBURG	SE	442.100	KA9QLP/R	O		* KA9QLP	01/10/95
CHIPPEWA FALLS	NW	147.375	WD9HFT/R	O CA		WD9HFT	05/09/94
CHIPPEWA FALLS	NW	442.700	WD9HFT/R	O CA		WD9HFT	05/09/94
CHIPPEWA FALLS	NW	444.350	WA9PAM/R	O		WA9PAM	04/16/93
CLARKS MILLS	NE	145.370	KA9YGO/R	O		KA9YGO	04/04/93
CLEVELAND	NE	444.550	KF9SJ/R	O		* KF9SJ	02/06/95
CRIVITZ	NC	145.470	KA9YQJ/R	O PL 107.2		* KA9YQJ	01/30/95
CUDAHY	SE	224.900	NK9G/R	O A PL T Z		NK9G	11/13/94
DELAFIELD	SE	146.820	KE9QP/R	O CA EX PL127.3 Z		SEWFARS	07/26/94
DELAFIELD	SE	444.125	KE9QP/R	O E PL 114.8		SEWFARS	07/26/94
DORCHESTER	NC	145.270	WA9ZCO/R	O A E		WA9ZCO	10/10/94
EAGLE RIVER	NC	145.390	KD9PT/R	O		KD9PT	04/10/94
EAU CLAIRE	NW	146.910	K9UXP/R	O A E X		* E C ARC	01/14/95
EAU CLAIRE	NW	147.240	WJ9R/R	O E		* E C ARC	01/14/95
EAU CLAIRE	NW	224.400	N9RSU/R	O		* N9RSU	02/06/95
EAU CLAIRE	NW	443.300	KB9R/R	O E		KB9R/R	04/10/94
EAU CLAIRE	NW	444.925	N9RSU/R	O PL 67.0		N9RSU/R	05/09/94
ELKHORN	SE	146.865	WA9AJW/R	O A		W CO ARES	05/09/94
ETTRICK	SW	146.700	WA9HCZ/R	O 2125 HZ MARK		WA9HCZ	04/10/94
FITCHBURG	SC	444.000	KA9VDU/R	O PL 123.0 L		BURG	04/10/94
FOND DU LAC	NE	145.430	N9PJQ/R	O		* N9PJQ	01/16/95
FOND DU LAC	NE	147.090	WD9ESH/R	O CA E R PL107.2		FDL. RPT	07/26/94
FOND DU LAC	NE	223.900	WA4COY/R	O B CA		WA4COY	01/31/94
FOND DU LAC	NE	444.150	WA4COY/R	O B A PL 107.2		WA4COY	05/22/93
FOND ATKINSON	SC	53.090	AA9AD/R	O PL 123.0		S.W.R.G.	04/10/94
FOND ATKINSON	SC	145.490	W9MQB/R	O		TCARC	04/10/94
FOND ATKINSON	SC	224.420	N9DTT/R	O		N9DTT	04/10/94
FOND ATKINSON	SC	442.300	N9QIP/R	O PL 127.3		N9QIP	11/20/94
FOND ATKINSON	SC	442.750	N9DTT/R	O PL 123.0		N9DTT	04/10/94
FRANKLIN	SE	444.625	K9WQG/R	O		K9WQG	06/06/93
FRANKLIN	SE	1282.500	KD9Y/R	O		KD9Y	11/22/93
FRANKSVILLE	SE	223.800	KC9NG/R	O		KC9NG	04/10/94
GERMANTOWN	SE	224.180	W9CQO/R	O		O.R.C.	07/26/94
GILLET	NE	224.480	WL7MO/R	O PL 114.8		WL7MO	04/10/94
GILLINGHAM	SC	147.120	K0DB/R	O		K0DB	08/01/94
GLIDDEN	NW	444.650	N0EDV/R	O INPUT 144.65		N0EDV	04/04/93
GRANTON	NC	146.775	W9FPE/R	O		W9FPE	11/20/94
GREEN BAY	NE	147.075	N9PAW/R	O E PL 107.2		N9PAW	04/10/94
GREEN BAY	NE	147.120	K9GB/R	O A E Z PL 107.2		* G B M&K	02/06/95
GREEN BAY	NE	147.270	KB9ALN/R	O PL107.2 LNK 145.11*		NEW RL	01/15/95
GREEN BAY	NE	147.360	K9EAM/R	O A E Z		GB M&K	03/12/92
GREEN BAY	NE	223.940	KB9DSV/R	O A E PL 107.2		KB9DSV	12/29/93
GREEN BAY	NE	224.140	KZ9O/R	O A E PL 107.2		RADACTV	04/10/94
GREEN BAY	NE	443.500	KB9AMM/R	O CA		KB9AMM	06/12/94
GREEN BAY	NE	443.750	N9IIE/R	O LNK 146.685		* RRU	01/15/95
GREEN BAY	NE	444.200	WB9VJV/R	C		WB9VJV	12/11/93
GREEN BAY	NE	444.775	K9EAM/R	O CA E Z		G B M&K	06/12/94
GREEN LAKE	SC	146.955	KB9WC/R	O E		G FOX ARC	05/22/93
GREEN LAKE	SC	444.400	KB9WC/R	O		G FOX ARC	05/22/93

Location	Rg	Output	Call	Access	Update OK=*	Sponsor	Updated
HARTFORD	SE	52.990	K9MLD/R	O		K9MLD	06/06/93
HAYWARD	NW	147.255	W9NNS/R	O A E Z L X ARES		NVWA	06/12/94
HAYWARD	NW	444.850	N9EGE/R	O		N9EGE	04/10/94
HILBERT	NE	53.170	KN9P/R	O		KN9P	04/19/93
HILBERT	NE	146.895	N9OBG/R	O A E PL 107.2		N9OBG	12/12/94
HILLSBORO	SW	145.370	WB9SBD/R	O		WB9SBD	12/14/92
HIXTON	SW	146.940	KC9YE/R	O		T/J RA	07/26/94
HOLCOMBE	NW	52.810	N9LIE/R	O		N9LIE	07/26/94
HOLCOMBE	NW	145.470	N9LIE/R	O PL 110.9		N9LIE	07/26/94
HOLCOMBE	NW	147.345	N9QWH/R	O A E		N9QWH	05/09/94
HOLCOMBE	NW	444.625	N9QWH/R	O		N9QWH	04/04/93
HOLLANDALE	SC	146.655	KB9AKM/R	O		ICATS	04/10/94
HOLLANDALE	SC	444.550	N9QIP/R	C LINK W.I.N.		N9QIP	05/09/94
HUBERTUS	SE	145.250	KA9HLP/R	O		A.R.E.S.	09/08/92
HUDSON	NW	145.130	W9AVX/R	O CA R E		* SCC RACES	01/15/95
HUDSON	NW	146.955	K0LAV/R	O TTON287 TTOFF1287		K0LAV	04/10/94
IOLA	NC	444.650	N9NOI/R	O PL 114.8		N9NOI	12/11/93
IRMA	NC	146.730	K9GTQ/R	O		K9GTQ	11/12/93
IRON RIVER	NW	147.270	WBKMT/R	O E PL 114.8		WBKMT	12/19/94
JANESVILLE	SC	145.450	WD9ACY/R	O		R.A.T.S.	10/21/94
JANESVILLE	SC	147.075	KB9YC/R	O PL 123.0		KB9YC	05/09/94
JANESVILLE	SC	442.825	KB9YC/R	O PL 123.0		KB9YC	05/09/94
JUNEAU	SC	146.640	W9TCH/R	O A E 2911 WX		ROCK R RC	05/09/94
KAUKAUNA	NE	444.450	ND9Z/R	O CA PL 107.2		ND9Z	04/10/94
KENOSHA	SE	224.800	WB9LST/R	O A E PL 114.8		K.A.R.S.	04/10/94
LA CROSSE	SW	29.640	KE9XQ/R	O		KE9XQ	12/11/93
LA CROSSE	SW	146.760	K9CUT/R	O		LCARC	06/12/94
LA CROSSE	SW	146.865	KE9XQ/R	O		KE9XQ	12/11/93
LA CROSSE	SW	146.970	K0JYB/R	O A E X		RVRLNDARC	05/09/94
LA CROSSE	SW	147.090	N9ETD/R	O		MVARA	05/09/94
LA CROSSE	SW	444.600	WA9HCZ/R	O		ONA ARC	04/10/94
LA VALLE	SC	442.400	W9EBF/R	O PL 123.0		W9EBF	06/12/94
LADYSMITH	NW	53.150	N9QWH/R	O A USE 1 MHZ NOW		N9QWH	05/09/94
LADYSMITH	NW	223.920	N9QWH/R	O A E		N9QWH	05/09/94
LAC DU FLAMBEAU	NC	146.670	N9AFN/R	O PL		N9AFN	04/10/94
LAC DU FLAMBEAU	NC	146.700	W9BTN/R	O PL 114.8		W9BTN	06/12/94
LODI	SC	147.225	K9EYY/R	O A E PL 123.0		K9EYY	08/15/94
MADISON	SC	53.070	N9KAN/R	O PL 123.0 (P)		S.W.R.G.	04/10/94
MADISON	SC	146.685	W9YT/R	O PL 107.2		UWB ARS	12/14/92
MADISON	SC	146.760	WB9AER/R	O CA E Z PL 123.0		M A R A	04/10/94
MADISON	SC	146.940	W9FZC/R	O PL 123.0		C W R A	04/29/92
MADISON	SC	147.150	WB9AER/R	O CA E Z PL 123.0		M A R A	04/10/94
MADISON	SC	224.160	WB9RSQ/R	OA E PL LNK10-2-440*		WB9RSQ	12/19/94
MADISON	SC	443.400	N9KAN/R	O PL 123.0 CA X L		S.W.R.G.	04/10/94
MADISON	SC	444.500	WB9TAE/R	O PL 123.0 CA E L		WB9TAE	05/09/94
MADISON	SC	444.725	N9PHQ/R	O PL 123.0		N9PHQ	10/10/93
MADISON	SC	444.925	WB9TAE/R	O PL (MOBILE)		WB9TAE	04/04/93
MANITOWOC	NE	145.190	WB9MFB/R	C		WB9MFB	07/25/94
MANITOWOC	NE	146.610	W9DK/R	O TT CA		MANCORAD	04/10/94
MANITOWOC	NE	147.030	N9GHE/R	O A PL 107.2		N9GHE	04/10/94
MANITOWOC	NE	224.540	N9GHE/R	O		N9GHE	04/10/94
MANITOWOC	NE	443.975	N9GHE/R	O A		N9GHE	04/10/94
MARSHFIELD	NC	145.490	W9FYP/R	O		W9FYP	04/10/94
MARSHFIELD	NC	147.180	AA9BN/R	OAE Z L 444.975		MAARS	07/25/94
MARSHFIELD	NC	444.975	AA9BN/R	O E L 147.18		MAARS	06/06/93
MAUSTON	NC	146.850	N9FVP/R	O		ARCOFCW	07/25/94
MEDFORD	NC	147.150	W9QHI/R	O A E P WX Z ARES		TAYLOR	10/10/94
MENOMONEE FALLS	SE	444.425	KA9FIN/R	O		SHRINE	04/10/94
MENOMONIE	NW	146.610	WB9YMB/R	O		R CDR RA	11/01/94
MENOMONIE	NW	146.805	N9HNI/R	O		N9HNI	04/04/93
MENOMONIE	NW	443.575	N9KIP/R	O		N9KIP	04/10/94
MERRILL	NC	53.190	N9QGJ/R	O		MERRIL RA	04/19/93
MERRILL	NC	145.450	KB9DZG/R	O		KB9DZG	12/17/94
MERRILL	NC	146.970	N9QGJ/R	O		MERRIL RA	04/04/93
MILTON	SC	146.715	K9RIJ/R	O CA		K9RIJ	04/10/94
MILTON	SC	443.175	K9RIJ/R	O		K9RIJ	08/01/94
MILWAUKEE	SE	29.620	WB9ZRB/R	O		IND RP SY	12/29/93
MILWAUKEE	SE	29.680	N9BBG/R	O PL 127.3		N9BBG	06/12/93
MILWAUKEE	SE	52.990	N9PPX/R	O		N9PPX	05/09/94
MILWAUKEE	SE	53.030	WB9TRO/R	O		W.E.R.A.	04/10/94
MILWAUKEE	SE	52.680	WB9ZRB/R	O		IND RP SY	12/29/93
MILWAUKEE	SE	145.130	N9EGR/R	O A E L ZXPL 127.3		MAARS	11/13/94
MILWAUKEE	SE	145.170	W9FK/R	O		WARAC	06/06/93
MILWAUKEE	SE	145.230	N9BMH/R	O PL 141.3		N9BMH	12/11/93
MILWAUKEE	SE	145.390	WB0AFB/R	O PL 127.3		MATC RC	04/10/94
MILWAUKEE	SE	146.625	WB9ZRB/R	O		WB9ZRB	12/29/93
MILWAUKEE	SE	146.670	W9WK/R	O PL 127.3		ARES	12/19/94
MILWAUKEE	SE	146.790	W9HHX/R	O CA PL 127.3		MSOE ARC	02/08/93
MILWAUKEE	SE	146.850	W9KHO/R	O PL 127.3		MICORS	07/26/94
MILWAUKEE	SE	146.910	WA9JOB/R	O E Z X PL 127.3		M.R.C.	07/05/92
MILWAUKEE	SE	147.000	W9PY/R	O PL 146.2		P.R.C.	06/12/94
MILWAUKEE	SE	147.045	W9RH/R	O		M.R.A.C.	11/20/94
MILWAUKEE	SE	147.105	K9IFF/R	C CA TT		K9IFF	04/10/94

Location	Rg	Output	Call	Access	Update	OK=*	Sponsor	Updated
MILWAUKEE	SE	147.165	WB9SDD/R	O PL 127.3 E	WB9SDD		04/16/93	
MILWAUKEE	SE	147.210	W9ODD/R	O PL 127.3	M.U. RAMS		04/10/94	
MILWAUKEE	SE	223.860	WB9UOS/R	O	WB9UOS		04/15/94	
MILWAUKEE	SE	224.900	NK9G/R		NK9G		11/15/90	
MILWAUKEE	SE	224.960	WD9EUF/R	O PL 127.3	WD9EUF		06/06/93	
MILWAUKEE	SE	427.250	N9BMH/R	O ATV RPT	N9BMH		01/31/94	
MILWAUKEE	SE	442.200	N9OEZ/R	O	N9OEZ		09/09/94	
MILWAUKEE	SE	442.650	N9VBK/R	O CA PL 114.8	N9VBK		09/09/94	
MILWAUKEE	SE	443.050	N9OSK/R	O	N9OSK		08/22/94	
MILWAUKEE	SE	443.150	W9KHO/R	O PL 114.8	MICORS		07/26/94	
MILWAUKEE	SE	443.700	WA9HUX/R	O PL	WA9HUX		04/04/93	
MILWAUKEE	SE	443.750	WA9POV/R	O	WA9POV		04/28/94	
MILWAUKEE	SE	443.800	N9GMT/R	O A E Z L PL 114.8	FM 38		07/11/93	
MILWAUKEE	SE	444.300	W9SUF/R	O Z PL 114.8	ARES		12/11/93	
MILWAUKEE	SE	444.325	N9CFG/R	O PL 127.3	B.I.O.S.		04/10/94	
MILWAUKEE	SE	444.825	WJ9Z/R	O PL 136.0	WJ9Z		08/01/94	
MILWAUKEE	SE	444.850	WB9TRO/R	C PL A E L	W.E.R.A.		04/10/94	
MILWAUKEE	SE	444.875	WB9TRO/R	C	W.E.R.A.		05/09/94	
MONROE	SC	145.110	NR9W/R	O	G C ARA		04/10/94	
MOSINEE	N9	147.105	N9KJK/R	C	KJK		09/21/93	
MT STERLING	SW	147.360	W9DMH/R	O	W9DMH		04/10/94	
NEW BERLIN	SE	147.285	W9EBF/R	O PL 127.3	W9EBF		06/12/94	
NEW HOLSTEIN	NE	147.300	K9LGR/R	O A E Z	C.A.R.E.S		12/17/94	
NORTH FREEDOM	SC	443.675	KD9UU/R	O PL 114.8 TT 71L	S.W.R.G.		04/10/94	
OCONOMOWOC	SE	442.025	N9JUJ/R	O PL 114.8	N9JUJ		06/21/93	
OGDENSBURG	NC	147.015	N9BKJ/R	O NOW ON 146.925	* N9BKJ		01/16/95	
OGDENSBURG	NC	147.165	N9NOJ/R	O	* N9NOJ		01/16/95	
ONALASKA	SW	444.475	W9LZQ/R	O	RARC		12/17/94	
OSHKOSH	NE	147.240	KA9JAC/R	O TT A E Z	WIN CTY E		06/06/93	
OSHKOSH	NE	147.345	N9AOT/R	O PL 107.2	SOLAR		12/17/94	
OSHKOSH	NE	443.450	WF9H/R	O A	WF9H		10/18/94	
PARK FALLS	NC	147.000	KA9EOK/R	O	PRICE RA		06/12/94	
PARK FALLS	NC	444.750	AG9G/R	O	AG9G		05/09/94	
PEPIN	NW	145.350	KB9S/R	O	WAB ARS		12/11/93	
PEWAUKEE	SE	147.210	WB9AKC/R	O PL 127.3	WCTC ARC		04/10/94	
PEWAUKEE	SE	443.125	WB9AKC/R	O PL 114.8 & 127.3	WCTC ARC		04/10/94	
PLAIN	SC	442.100	KA9VDU/R	O PL 114.8	BURG		08/01/94	
PLATTEVILLE	SW	145.270	N9PMB/R	O A E	UWPARC		12/11/93	
PLYMOUTH	NE	147.060	NF9R/R	O PL 107.2	SCARC		04/10/94	
PLYMOUTH	NE	224.940	NF9R/R	O	SCARC		04/10/94	
PLYMOUTH	NE	444.100	KD9TZ/R	O PL 107.2	S CTY 440		04/10/94	
PLYMOUTH	NE	444.350	WE9R/R	O E L X PL 114.8	WERA		11/01/94	
POUND	NC	146.685	KA9JVH/R	OPL107.2 LNK443.750*	KA9JVH		01/15/95	
POWERS LAKE	SE	443.925	KC9XN/R	O PL 114.8 L	L&K ARS		04/10/94	
PRAIRIE FARM	NW	147.075	K9ST/R	O	K9ST		11/02/93	
PORT WASHINGTON	SE	146.970	W9CQO/R	O A PL 127.3 E X Z	O.R.C		07/26/94	
PORT WASHINGTON	SE	147.330	WB9RQR/R	O A PL 127.3	OZARES		04/10/94	
PORT WASHINGTON	SE	443.525	WB9RQR/R	O PL 114.8	OZARES		04/10/94	
RACINE	SE	147.270	W9UDU/R	O A E Z I P R	L/S RP A		04/10/94	
RACINE	SE	442.000	KB9HSJ/R	O CA PL 127.3	A.C.T.		04/10/94	
RACINE	SE	442.200	N9OEZ/R	O 103.5 + MDC LINK	C.A.R.S.		04/10/94	
RACINE	SE	443.950	KA9JMK/R	O PL 127.3	KA9JMK		04/10/94	
RACINE	SE	444.050	KA9LOK/R	O	KA9LOK		04/16/93	
RACINE	SE	444.950	WA9BDX/R	O PL 114.8	WA9BDX		04/10/94	
RHINELANDER	NC	145.370	KA9TCC/R	O CA E	NWARC		06/12/94	
RHINELANDER	NC	146.940	W9ZZZ/R	O A E	RHIN RP A		04/10/94	
RICE LAKE	NW	147.030	WB9WFG/R	O	BAR ARES		04/19/93	
RICE LAKE	NW	443.700	WB9PRI/R	O	* WB9PRI		01/11/95	
RIDGEVILLE	SW	444.850	KB9EBX/R	O PL 167.9	KB9EBX		04/10/94	
RIVER FALLS	NW	443.800	K9ZMA/R	O	K9ZMA		06/12/94	
ROBERTS	NW	147.330	KA9YRV/R	O PL 110.9 TX & RX	SCVRA		09/21/93	
ROSHOLT	NC	147.255	KF9HP/R	O	KF9HP		06/20/93	
RUBICON	SC	145.350	WB9KPG/R	O A E Z	* WB9KPG		01/11/95	
SABNER	NC	145.130	N9QGG/R	O CA	MERRIL RA		09/10/93	
SHAWANO	NC	145.350	KA9NWX/R	OCARBXZE PL 114.8	KA9NWX		07/25/94	
SHEBOYGAN	NE	145.110	KR9S/R	O	SHEB DX		12/11/93	
SHEBOYGAN	NE	147.255	N9REH/R	O	N9REH		04/10/94	
SISTER BAY	NE	147.180	W9AIQ/N	O E PL 107.2	* DC ARC		02/06/95	
SLINGER	SE	52.830	W9MQD/R	O	W9MQD		11/01/94	

Location	Rg	Output	Call	Access	Update	OK=*	Sponsor	Updated
SOLON SPRINGS	NW	145.490	K9ASC/R	O O A E			DC RACES	12/18/94
SPOONER	NW	147.135	KE6WF/R	O E Z L 223.2MHZ.	KE6WF		04/10/94	
SPOONER	NW	444.800	KE6WF/R	O	KE6WF		04/10/94	
SPOONER/HERTEL	NW	147.300	WB9RBD/R	O CA E Z	B.A.R.S.		04/10/94	
SPOONER/HERTEL	NW	224.500	WB9RBD/R	O A E Z	B.A.R.S.		04/10/94	
SPOONER/HERTEL	NW	443.500	WB9RBD/R	O A E Z	B.A.R.S.		04/10/94	
ST GERMAIN	NC	147.315	KA9UCE/R	O E PL 114.8	E.S.R.G.		04/04/93	
ST GERMAIN	NC	444.400	KA9UCE/R	O	KA9UCE		04/19/93	
ST LAWRENCE	SE	146.730	W9MQD/R	O	WC ARC		09/09/94	
STEVENS POINT	NC	146.670	WB9QFW/R	O A E Z	CWRA LTD		04/10/94	
STEVENS POINT	NC	146.985	W9NN/R	O E	CWRA LTD		04/10/94	
STEVENS POINT	NC	444.700	KC9NW/R	O E	KC9NW		04/10/94	
STOUGHTON	SC	443.325	N9LHS/R	O PL 114.8	N9LHS		02/16/94	
STURGEON BAY	NE	146.730	WB9YUY/R	O O R PL 107.2 E	WB9YUY		10/12/93	
STURGEON BAY	NE	147.210	W9A1Q/R	O CA E Z	* DOOR E G		02/06/95	
STURGEON BAY	NE	444.000	WB9YUY/R	O	WB9YUY		10/12/93	
STURGEON BAY	NE	920.000	WB9YUY/R	O	WB9YUY		10/12/93	
STURGEON BAY	NE	1282.100	WB9YUY/R	O	WB9YUY		10/12/93	
STURTEVANT	SE	29.640	WA9ZYQ/R	O	WA9ZYQ		04/10/94	
STURTEVANT	SE	224.740	WA9ZYQ/R	O	WA9ZYQ		04/10/94	
SUN PRAIRIE	SC	443.600	KA9QOT/R	O E PL 123.0	KA9QOT		05/09/94	
SUPERIOR	NW	444.900	WA9KLM/R	O A E	WITC ARC		04/10/94	
TIGERTON	SW	147.135	KF9TS/R	O PL E A R	KF9TS		06/12/94	
TOMAH	SW	145.390	N9BOE/R	O E Z911	MCARC		07/26/94	
TOMAH	SW	444.800	N9QIP/R	C LINK TO W.I.N.	N9QIP		05/09/94	
TOMAHAWK	NC	53.110	N9CLE/R	O P	TOM. R A		04/19/93	
TOMAHAWK	NC	145.430	N9CLE/R	O A E Z911	TOM RP A		04/04/93	
TOMAHAWK	NC	223.760	N9CLE/R	O	TOM RP A		04/04/93	
TOMAHAWK	NC	444.575	N9CLE/R	O	N9CLE		04/04/93	
TREVOR	SE	145.290	KA9VZD/R	O PL A E L Z X	STLIN ARC		04/10/94	
TREVOR	SE	442.600	KA9VZD/R	O PL E A Z	KA9VZD		04/10/94	
UNION GROVE	SE	442.250	N9OIG/R	O PL 103.5	N9OIG		05/09/94	
WABENO	NE	145.110	KF9DB/R	OPL107.2 LNK 147.27*	NRL		01/15/95	
WALES	SE	224.120	WB9DRO/R	O PL 127.3	WB9DRO		04/10/94	
WAUKESHA	SE	224.460	KX3H/R	O PL 127.3	KX3H		09/09/94	
WAUPACA	NC	145.410	WB9ICH/R	O A E	MIDWI ARG		04/10/94	
WAUPACA	NC	146.835	N9BKJ/R	O A E L R X WXARES	N9BKJ		08/01/94	
WAUPACA	NC	147.390	WA9FDC/R	O X ARES/RACES	WP'ACA RC		04/10/94	
WAUPACA	NC	444.825	N9BKJ/R	O L	N9BKJ		08/01/94	
WAUSAU	NC	53.450	W9BCC/R	O	R.M.R.A.		04/10/94	
WAUSAU	NC	146.640	W9SM/R	O E CA L Z X	W.V.R.A.		12/11/93	
WAUSAU	NC	146.820	W9BCC/R	O E Z L	R.M.R.A.		04/10/94	
WAUSAU	NC	147.060	W9KRY/R	O CA E	KC9NW		04/10/94	
WAUSAU	NC	224.640	W9SM/R	O E CA L Z X	WI VAL RC		12/11/93	
WAUSAU	NC	421.250	AD9W/R	O E L AURAL + 4.5	RMATS		04/10/94	
WAUSAU	NC	923.250	AD9W/R	O E L AURAL + 4.5	RMATS		04/10/94	
WAUSAU	NC	1250.000	AD9W/R	O E L AURAL + 4.5	RMATS		04/10/94	
WAUSAU	NC	421.250	AD9W/R	OEL VIDFM AUD+4.5	RMATS		04/10/94	
WAUSAU	NC	421.250	AD9W/R	OEL VIDFM AUD+4.5	RMATS		04/10/94	
WAUSAU	NC	443.325	KA9SOT/R	C	KA9SOT		09/09/94	
WAUSAU	NC	443.750	KC9NW/R	O CA E	KC9NW		04/10/94	
WAUSAU	NC	443.950	KC9NW/R	O	KC9NW		04/10/94	
WAUSAU	NC	444.100	W9SM/R	O CA Z911	WVRA		12/11/93	
WAUSAU	NC	444.300	W9BCC/R	O E Z L	R.M.R.A.		04/10/94	
WAUSAU	NC	906.000	W9BCC/R	O	R.M.R.A.		04/10/94	
WEBB LAKE	NW	145.190	N9EDV/R	O	N9EDV		04/04/93	
WEST ALLIS	SE	224.520	KA9JCP/R	O A E	KA9JCP		04/04/93	
WEST BEND	SE	223.820	N9NBN/R	O CA	N9NBN		12/17/94	
WEST BEND	SE	443.425	N9NBN/R	O PL 114.8 CA	N9NBN		12/17/94	
WEST BEND	SE	444.900	N511A/R	O PL 114.8	N511A		05/09/94	
WEYERHAUSER	NW	145.170	KA9PZX/R	O	* MAGIC		02/06/95	
WISCONSIN RAPIDS	NC	146.790	W9DQA/R	O PL 114.8 TX&RX	MIDST RA		05/09/94	
WISCONSIN RAPIDS	NC	147.330	K9PJB/R	O CA E Z	WT AIR RA		05/09/94	
WINNECONNE	SC	224.500	KB9IE/R	O CA	P.G.R.A.		09/05/94	

Badger State Smoke Signals • May, 1995
Used by permission of the Wisconsin Association of Repeaters.

HERE AND THERE

Continued from page 5

Alaska (region 11), AL, KL, NL, and WL are no longer limited to the numeral 7. Any numeral, 0 through 9, is available. The call signs KL9KAA through KL9KHZ are reserved for assignment to US personnel stationed in Korea.

In the Caribbean (region 12), KP3, NP3, and WP3 (or 4) call signs will indicate the Commonwealth of Puerto Rico (except Desecheo Island).

In Hawaii and the Pacific (region 13), AH7, KH7, NH7, and WH7 (or 6) call signs will indicate Hawaii except that the letter K following the numeral 7 will indicate Kure Island.

Systematically assigned call signs in Groups A (Amateur Extra class) and C (General, Technician, and Technician Plus class) for Alaska, Hawaii, and Puerto Rico using the traditional numerals (7, 6, and 4, respectively) have been exhausted.

The new fact sheet also designates Group D call signs for club and military recreation stations, applications for which have been accepted by the Commission since March 24, 1995.

It is not known if the FCC has yet issued any call signs under these new guidelines.

- ARRL Bulletin ARLB033, 4/3/95

FCC Data on Internet

The Federal Communications Commission is now offering the complete amateur service database on the Internet, via the FCC's file transfer protocol (ftp) site.

This new service marks the beginning of electronic granting of licenses at the FCC's Wireless

Telecommunications Bureau. As soon as the data for a new license appears in the database, the license is effective and all privileges of that license may be exercised by the licensee.

Licensees will no longer need to wait to receive a license document in the mail; they may use the database as proof of licensing and go on the air immediately.

The database will be updated every Monday by noon (Eastern Time).

Information may be retrieved using the following procedure:

Access: [anonymous ftp.fcc.gov](ftp://anonymous.fcc.gov)

Directory: [pub/XFS AlphaTest/amateur](ftp://pub/XFS AlphaTest/amateur)

Documentation: [readme.txt](ftp://pub/XFS AlphaTest/amateur/readme.txt)

The FCC's Consumer Staff in Gettysburg, Pennsylvania, can answer questions at 800-322-1117 or 717-337-1212.

- ARRL Bulletin ARLB040, 4/18/95



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FOR SALE: DX-100, nice. WANTED: Ten-Tec Arg

Study Sees More Ham Bands

A US Government study concludes that amateurs could use 2180 additional kilohertz of spectrum in the future. The National Telecommunications and Information Administration (NTIA) reports this need in a just-released 10-year projection of spectrum requirements for all licensed radio services.

In June 1992 the ARRL responded to an NTIA Notice of Inquiry with extensive comments (see January 1993 *QST*, page 82). Here are the 2,180 kilohertz cited in the NTIA report:

- 30 to 50 MHz, 5 slots of 50 kHz each (250 kHz total)
- 160 to 190 kHz (30 kHz)
- Near 5 MHz (50 kHz)
- Expansion of 10 MHz band (200 kHz)
- Expansion of 14 MHz band (50 kHz)
- Expansion of 18 MHz band (150 kHz)
- Expansion of 24 MHz band (150 kHz)
- 219 to 220 MHz (1000 kHz, already in process)
- Satellite downlink, 29.7 to 30.0 MHz (300 kHz).

Here are excerpts from the NTIA study:

"The amateur community commenters have suggested significant changes to the allocation table to accommodate expanded amateur operations. many of the suggested allocation revisions are reasonable..

"The amateur-satellite service will soon have a new generation of amateur satellites in orbit that will use all frequency bands allocated to the amateur-satellite service from 29 MHz through 24 GHz.

For this reason, the retention of current allocations, additional amateur-satellite allocations, and the upgrading of certain current allocations is desirable.

"Amateur requests for international reallocations would be appropriate issues for .. future World Radiocommunication Conferences (WRCS). Additional allocations at 160-190 kHz, and near 5 MHz will require technical studies to determine the availability of these bands to support amateur use.

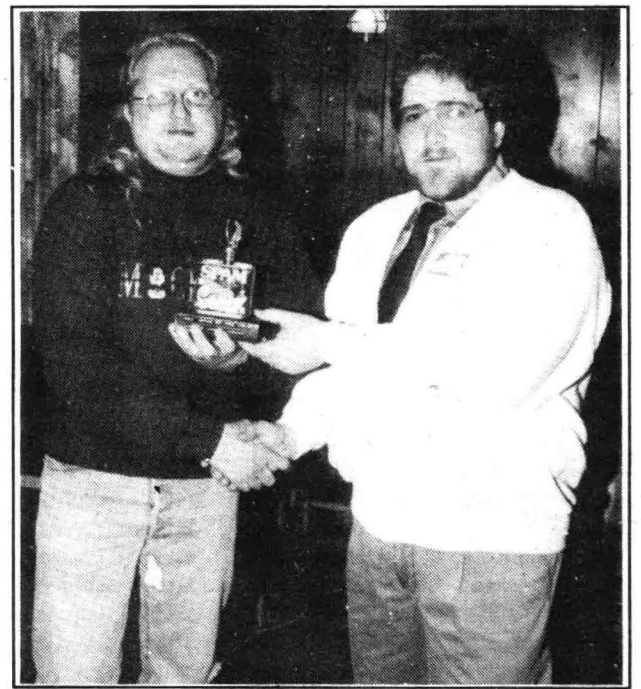
"The expansion and upgrading of amateur allocations in the 10, 14, 18, and 24 MHz bands are acceptable, but will depend on future decrease of requirements for the aeronautical mobile or the fixed services internationally. The alignment of the amateur 3.5 and 7 MHz bands worldwide will require the inclusion of these issues in U.S. preparations for future WRCS.

"As noted, FCC rulemaking is in progress for amateur access to the 219-220 MHz band. The request for additional narrow spectrum allocations between 30 and 50 MHz for propagation experimentation (e.g., five, 50 kHz slots) will need to be studied for technical compatibility."

Finally, the study said that "any sharing of military radiolocation spectrum (e.g., 430-440 MHz) with the amateur services on a co-primary basis in current federal radiolocation bands is not feasible because of the potential loss of operational flexibility for military radar systems. Further, the expansion of use in the 902-928 MHz band by federal and non-federal users, including the operation of wind profiling radars, may make this band untenable for amateur operations in the future."

- ARRL Bulletin ARLB036, 4/11/95

Wham! Bam! Chris Gets the SPAM!



The Sheboygan Amateur Radio Club always presents a member with a Ham of the Year Award to recognize hard work above and beyond the call of duty. But, they also present someone with the SPAM Award, which might mean hard work above and beyond the call of nature; that someone is the jokester, someone who puts "Beavis and Butt-head" ahead of news in TV watching priorities. It may, according to Steve Meifert, SCARC president, include profuse proficiency at flatulence. (I thought / held that title! - editor). The SPAM Award was given this year to Chris Jacobs, N9-VKC, at left, by Steve, KF9KZ, who says "Thanks, Chris, for everything you have done this past year, and especially for just being yourself."

- Photo by Kurt Bruegl/ N9ZMO

MFJ Dual Band Mobile Antenna

For an incredible \$14.95, you get a dual band 2 Meter/440 MHz mobile antenna with strong magnet mount, stainless steel radiator, 15 feet of coax and BNC adapter for your handheld -- It's the fastest selling mobile antenna in ham radio!

MFJ-1724B For an incredibly low \$14.95, you get an MFJ dual band 2 Meter /440 MHz mobile antenna! It's the fastest selling mobile antenna in ham radio! You get excellent gain for solid, noise-free QSOs. On 440 MHz, it's a high gain 1/2 wave over 1/4 wave radiator. On 2 Meters, it's a full size 1/4 wave radiator. Its tough stainless steel radiator is only 19 inches tall -- won't knock off when parking in your garage. An extra powerful magnet holds it steady -- even at highway speeds.

You get 15 feet of coax with a standard PL-259 coax connector for your mobile rig. You get a BNC adapter so you can also use it with your handheld! Your MFJ-1724B is protected by MFJ's famous one year *No Matter What* unconditional guarantee.

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MFJ-1754 \$24.95 New! Dual band ground plane antenna for 2 Meters and 440 MHz gives you extra long range on 440 MHz with a high gain halfwave over quarter wave radiator. On 2 Meters you get solid quarter wave performance. Mounts on 1 to 1 1/2 inch mast with single U-bolt. Easy-to-tune.

1/4 Wave Ground Plane

MFJ-1740 \$12.95 The MFJ-1740 brings up 2 Meter repeaters as well as any 1/4 wave ground plane made! You get easy tuning, low loss ceramic antenna insulator and strong lightweight aluminum construction. Single U-bolt mounting for 1 to 1 1/2 inch mast. Cutting chart included for 220/440 MHz. Made in USA.

MFJ Pocket Roll-Up™ 2 Meter halfwave J-pole antenna

MFJ-1730 \$14.95 Roll up this halfwave 2M J-pole antenna and stick it in your pocket! It's the perfect gain antenna for traveling. Get home station performance on the go. Just hang your MFJ Pocket Roll-Up™ in the clear and plug the BNC connector into your handheld.

It's omni-directional and has significant gain over a 1/4 wave. It does not need a cumbersome ground plane so it's convenient for indoors and works great with handhelds. Made in USA.

Dual Band flexible Ducks 144/440 MHz flexible ducks for HTs

A. High Gain FlexiDuck MFJ-1717, \$19.95 Enjoy dependable QSOs when other rubber ducks give you noise. High gain 1/2 wave on 440 MHz, full size 1/4 wave on 2M. Won't jab you -- bends, twists, flexes with you. 15 1/2 inches.

B. FlexiDuck™, MFJ-1716, A B

\$16.95. Similar to MFJ-1717. Full 1/4 wave on 440 MHz, efficient loaded 1/4 wave on 2 Meters. 8 1/2 inches.

Shorty Duck™ for HTs

Add this short, 4 1/4 inch Shorty Duck™ to your 2M handheld for a Q-5 signal! Impedance matched for maximum gain. High-Q helical wound radiator.

5/8 Wave 2 Meter Mobile Antenna

MFJ-1728/B For maximum range while mobile, use MFJ's Maximum Gain™ 5/8 Wave 2 Meter Mobile Antenna. You'll get the maximum possible gain of any single element mobile antenna! Competitive 5/8 wave mobile antennas can't work any better -- no matter how much more they cost. You get low SWR so your rig can safely deliver maximum power into your antenna. It's rated at 300 watts PEP so you can use any mobile rig plus a mobile amplifier. You get a heavy-duty magnet mount that holds your antenna tight at highway speeds and a black magnet base that'll look good for years. You get a stainless steel radiator that'll endure years of harsh mobile use and 12 feet of coax cable. You get MFJ's one year *No Matter What* unconditional guarantee. Order MFJ-1728 with standard PL-259 coax connector or MFJ-1728B that also includes a BNC adapter for your handheld.

Stacked 5/8 Wave for 2 Meters

MFJ-1764 MFJ's stacked 5/8 wave radiators give you more than twice the omni-directional gain of a single 5/8 wave radiator! Wide 10 MHz 2:1 SWR bandwidth... excellent ferrite choke balun feedline decoupling... shunt choke for bleeding off unwanted static... strong lightweight aluminum. Fully assembled -- simply attach radiators -- no tuning required. Mounts vertically for FM/Packet or horizontally for SSB. Installs with single U-bolt on 1 to 1 1/2 inch mast or tower leg. 1 1/2 lbs., two 47 inch radiators, 23 inch boom. Made in USA. Also works as excellent 6 Meter full halfwave centered antenna. MFJ-1766, \$89.95, gives you four times the gain of single 5/8 wave. Includes 2 MFJ-1764, phasing cables. Doubles gain on 6 Meters. MFJ-1765, \$29.95, phasing cables for 2 MFJ-1764s, other 2M ant.

MFJ dual band 144/440 MHz Yagi

5 elements on 440 MHz... 4 elements on 2 Meters... \$49.95 Get two Yagis for the price of MFJ-1768 one... enjoy two Yagis in the space of one with single coax feed! MFJ's exclusive dual band balanced feed with FerriteChoke™ decoupling prevents pattern skewing and gives you low SWR.

The MFJ-1768 is based on the National Bureau of Standards design that's optimized for maximum forward gain with high front-to-back ratio and a clean symmetrical pattern.

Mounts vertically for FM/Packet or horizontally for SSB with single included U-bolt on 1 to 1 1/2 inch mast or tower leg.

High strength 6061-T6 aluminum 5 foot, 1 1/2 inch diameter boom. 2 pounds. Elements are electrically isolated from boom. Made in USA.

Portable 3 element Yagi for 2 M

MFJ-1763 You can set up or take down MFJ's portable 3 elements 2 Meter Yagi in seconds! Elements simply screw into the boom. You can take it with you wherever you go and have the "oomph" and directivity of a beam. It's easy to store and sturdy enough to use as your home station antenna.

Mounts vertically for FM/Packet or horizontally for SSB. Center or end mounts with single U-bolt. Great for packet/PacketCluster™. It's compact 2 1/4 foot boom gives you a calculated gain within 1 dB of a four element Yagi with a boom nearly twice as long.

Extra thick elements maintain high gain and directivity over entire 2 Meter band. MFJ's FerriteChoke™ decouples feedline.

Elements and boom are made from strong lightweight aluminum and protected by MFJ's Permanent Molecular Bonding Technology™. Weighs just 2 pounds. Boom is 30 1/2 inches. Made in USA.

5/8 Wave Ground Plane

MFJ-1750 \$19.95 For a low, low \$19.95, you get a high performance 2 Meter 5/8 wave ground plane home station antenna -- you'll get the maximum gain of any single element antenna.

More expensive 5/8 wave ground planes can't work any better -- no matter how much they cost.

You get a shunt fed matching that bleeds off unwanted static and gives you low SWR -- strong lightweight aluminum construction... low loss ceramic antenna insulator... MFJ's RapidTune™ radiator... MFJ's one year *No Matter What* guarantee. It mounts on 1 to 1 1/2 inch mast with single U-bolt and is Made in USA.

MFJ-1752, \$19.95, for 220 MHz

HT Range Extenders

Telescoping antennas for handhelds

A. Long Ranger™ 2 Meter Halfwave, MFJ-1714, \$16.95. For really long range this MFJ ended halfwave is hard to beat. It outperforms a 1/4 wave on a handheld because the 1/4 wave needs a ground plane. The MFJ halfwave doesn't. It's shorter, lighter, has more gain and places less stress on your antenna connector than a 1/4 wave antenna.

When collapsed, it performs like a rubber duck. 40" extended, 10 1/2" collapsed.

B. Dual Band™ for 2 Meters and 440 MHz. MFJ-1712, \$14.95. Got a new dual band handheld or separate units? One antenna fits all. It's a 1/2 wave for 2 Meters and a 1/4 wave with gain for 440 MHz. 7 1/4" collapsed, 19" extended.

C. Pocket Linear™ 1/2 Wave 2 Meters, MFJ-1710, \$9.95. Carry this pen size antenna in your pocket like a ballpoint pen. When you're using your rubber duck, on the fringe and noisy, put on the Pocket Linear™, extend it to 24 1/2" and carry on your QSO. Has pocket clip. 5 1/2" collapsed.

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From the Editor....

• Nothing was received from the Riverland Amateur Radio Club for the club section of this issue.

• Coming next month: the official results of the 1995 Wisconsin QSO Party, among other sundry stuff.

• Possibly coming, possibly some time, the story of a day shooting a commercial for TV. I played a bum in a box car, but the story is considerably more interesting than just that. The commercial, for HIS Jeans, was shot last September near Hinkley, Illinois. It has not run in any Wisconsin markets as far as I know, but has been running since February in other areas. It's a "wild spot." It could pop up anywhere, any time, I guess, up to June, 1996. Have a neat May. 73.

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PARTICIPATING CLUBS AND ORGANIZATIONS

Eau Claire Amateur Radio Club

Carl Searing, W9NW, Secretary

1129 McKinley Road • Eau Claire, WI 54703

April 11, 1995 Meeting

The meeting was opened at 1935 hours by Kevin Zehr, N9OHE, with 42 present. After a roll call, secretary's and treasurer's reports were read and approved.

Jack Brenner, N9UXH, described the club's new storage cabinet, now permanently located in the meeting room. It houses the club library, equipment, and coffee supplies.

Field Day plans seem to be tentative, and will depend upon a larger group of participants than have previously indicated interest.

Jim Fitzl, N9LIJ, described the current status of *Mission Eau Claire*, the space-oriented educational tool slated to begin operations on May 10. Club volunteers have helped in the past, but many more are needed to aid in the success of the program.

W9NW mentioned the upcoming volunteer test session.

Our general Program Chairman, Bert Spangler, W9ZZI, indefatigable at the

acquisition of educational opportunities for club programs postulates the membership meeting at the university campus in Eau Claire for the August meeting. Possible subject: Applications of technology to education.

It was decided that no formal programs would be held for the next few months prior to the July 22 hamfest so that we may concentrate on same. Regarding this, Don Alm, K9UXP, was, as usual at this time of year, concerned about the progress of the necessary activities that lead up to a successful 'fest, and much discussion of flyer dispersion, letters to previous commercial vendors, and hamfest preparation ensued.

Due to the lack of a formal program, the meeting adjourned to an enthusiastic bull session.

Lunch committee for the May 9 meeting: KB9R and W9ZZI.

Respectfully submitted:
W9NW, Secretary

Taylor County Area Amateur Radio Club

Mike Schoenfuss, N9GHZ, Secretary

P. O. Box 401 • Abbotsford, WI 54405-0401

MEETING ANNOUNCEMENT

The next regular meeting will be held on Thursday, May 4th at 7 p.m. in the Emergency Government meeting room located in the basement of the sheriff's annex to the Taylor County Courthouse, corner of 2nd and Ogden Sts., Medford, WI. Talk-in on the 147.15 Medford repeater (+600 kHz) or 146.52 MHz simplex.

EXCERPTS FROM MINUTES OF APRIL 6, 1995 MEETING

Meeting was called to order by President N9GEN. Present were N9GHZ, KA9WDX, N9UBR, N9UBQ, KB9BLV, N9GEN, AA9LE, W9QHI, N9FZD and Jim Horacek, Abbotsford (guest and new ham - callsign pending).

Minutes of the March 2, 1995 meeting were read by Secretary N9GHZ. Treasurer's report was presented by Treasurer KA9WDX.

Motion by KB9BLV, seconded by N9UBR, to reimburse N9GHZ in the amount of \$36.61 in expenses for a SKY-WARN spotter training announcement mailing and a sympathy card. Motion carried.

A check was received from N9QWB in the amount of \$15.00 for 1995 club dues and *Badger State Smoke Signals* subscription renewal. This was one dollar short of the required amount. The membership present directed the treasurer to accept the check as payment in full and to have the secretary contact him to let him know that and explain the cost increase from last year.

N9UBQ and N9GEN reported that there had been problems with the 147.15 repeater on March 22nd which surfaced during the weekly ARES net. A technician from Northway Communications came and checked the repeater on March 27th and reported a problem with the transmitter crystal. A replacement was ordered and sent for.

Motion by N9FZD, seconded by W9-QHI, to contact and advise Northway Communications that the Taylor County Area Amateur Radio Club has no objections to their proposal to install an antenna combining system on the NTC Medford tower as described in their letter of March 7, 1995 to the Taylor County Office of Emergency Government. Motion carried.

N9UBQ discussed the upcoming SKY-WARN spotter training course in Medford, and correspondence from the National Weather Service concerning a request for assistance in studying debris from tornados and severe storms. N9GHZ requested assistance from someone to act as net control station for a simulated SKYWARN net to be held on April 27th on the Medford repeater.

Upcoming ARES activities and the annual Field Day event were briefly discussed.

Meeting was adjourned.

CLARK/TAYLOR COUNTY AMATEUR RADIO EMERGENCY SERVICE (ARES) NEWS

Mike Schoenfuss, N9GHZ
ARES Emergency Coordinator

Don't forget to try to check into the weekly ARES net held Wednesdays at 8:30 p.m. on the Medford repeater (147.75/147.15). If the repeater is down or not functioning properly, alternate frequencies, in order, are 147.15 MHz simplex and 146.52 MHz simplex. You're also encouraged to volunteer for net control duty for the net.

Amateur Radio communications are being requested again this year for a couple of upcoming area events:

Saturday, May 20th: St. Jude's Bike-A-Thon, in Medford. If you can help with this event, please contact Lee Markow,

Wisconsin Nets Association Ltd.

WNA ON-THE-AIR-MEETING March 5, 1995

In the absence of KE9VU, WNA Chairman, Art Evans, KA9KLZ, WNA Secretary called the meeting to order at 1831Z, 5 March 1995.

The following members and guests were present:

K9FHI, WB9SMM, W9NGT, W9KKM, W9AYK, WB9YPY, WB9JSW, K9UTQ, N9UAR, N9BDL, N9FVN, WB9ICH, W9CBE, W9YCV, W9NGP, N9CKC, NS9Q and KB9ENO.

ARRL, WNA OFFICIALS AND N/M REPORTS

SECTION MANAGER (SM) -- SM Rich Regent, K9GDF was not present.

ASSISTANT SECTION MANAGER (ASM) -- ASM Roy Peterson, K9FHI, reported that the Wisconsin Section is doing well but could use more traffic.

SECTION TRAFFIC MANAGER (STM) -- STM Art Evans, KA9KLZ, reported that he is getting his feet wet on the job. All of the nets with the exception of the Novice net (WNN) are growing and doing well. Art reported that he is looking forward to working with the WNA to ensure continued good nets in Wisconsin.

SECTION EMERGENCY COORDINATOR (SEC) -- SEC John Leekley said he was glad to be able to check into the WNA meeting and would defer to W9NGT for the SEC report.

ASSISTANT SECTION EMERGENCY COORDINATOR (ASEC) -- ASEC Sherm Carr, W9NGT, reported that Spring Training for severe weather is under way. They are working on the station at Sullivan and hope to have it ready soon. Sherm also reported that he and John will do some traveling to speak to some groups in the near future.

WNA CHAIRMAN -- WNA Chairman Wayne Schanke, KE9VU, was not present.

WNA SECRETARY -- WNA Secretary Art Evans, KA9KLZ, reported that the WNA is doing well.

WNA TREASURER -- WNA Treasurer Fred Becker, W9KKM, reported that there is \$99.89 in the treasury and will submit a written report which will be an addendum to the minutes. Fred reported that W9YCV and W9NGP had sent in their WNA Booster dues. Fred reported that BSSS has raised their subscription rates and WNA Booster dues will have to increase \$2 per year to \$8.40 as a result.

NET MANAGER REPORTS

BADGER WEATHER NET (BWN) -- BWN N/M Jim Merrill reported that the BWN is averaging 65-75 checkins and 70-80 pieces of traffic daily. The band has been opening about 6:15 am local time. The NWS is working on a Ham friendly program for inputting weather electronically to Sullivan via the phone lines and modem. Delegates WB9YPY and WB9JSW echoed Jim's statements.

BADGER EMERGENCY NET (BEN) -- In the absence of BEN N/M Wayne Schanke, KE9VU, Delegate Art Evans, KA9KLZ, reported that the net is doing well with all NCS slots filled but could use some more D9RN reps.

WISCONSIN SIDEBAND NET (WSBN) -- WSBN N/M Gene Santoski, K9UTQ, reported that the net is doing pretty well. Checkins are up, averaging 24/25 per session. Gene said the net needs more traffic, with traffic averaging 6 pieces per session. Nets are lasting 28 minutes on average. Gene requested that if the net is not picked up by five minutes

after starting time, that someone take the net. Gene said that there is a good bunch of backup NCS's. WSBN Delegate Roy Peterson, K9FHI, suggested that alternate NCS's be appointed. WSBN Delegate Bob Foster, N9UAR, said he would be able to be active on the net again.

WISCONSIN NOVICE NET (WNN) -- WNN N/M Adrian Apple, KA9FVX, was not present.

WISCONSIN SLOW SPEED NET (WSSN) -- WSSN N/M Lee Andreas, N9BDL, remarked that he has been N/M of the WSSN for 10 years, and still has two of the original NCS stations. AG9G and KY9P have been the regular Friday and Saturday NCS station for well over 10 years. Lee remarked that the NCS stations are the most important part of the net and commended all of his NCS's for doing a wonderful job. Lee reports that the WSSN net controls are as follows:

Sunday: N9KHD
Monday: W9NGP
Tuesday: N9FVN
Wednesday: WB9ICH
Thursday: N9BDL
Friday: AG9G
Saturday: KY9P

Paul, N9FVN, WSSN Delegate reported that the net was running smooth with 8-10 check-ins per session.

WISCONSIN INTERSTATE NET/EARLY (WIN/E) -- WIN/E N/M Larry Guthu, WB9ICH, did not respond. W9CBE, Hale, WIN/E Delegate reported that the net was doing good but needs N9RN reps. Hale reported that two slots were open. W9YCV, Les, WIN/E Delegate, reported that W9CBE has composed an ARRL Numbered Radiogram, tentatively number seventy, which would be sent to the originator upon delivery of a message. Les submitted it to the ARRL and Rick Palm thought it was a good idea.

WISCONSIN INTERSTATE NET/LATE (WIN/L) -- WIN/L N/M Ed Rice, W9NGP, reports bad conditions for the last 3 months. Traffic count is down with about 60% cleared. N9RN had 100% representation with W9YCV, W9CBE, N9CKC and N9KHD doing a fine job. Ed reported that all NCS slots are filled. Steve, N9CKC, WIN/L Delegate agreed with Ed's statements.

NORTH WOODS TRAFFIC NET (NWTN) -- NWTN N/M Mary Berger, NS9Q, reported that the NWTN is going good with 8/9 checkins and traffic count about the same. Mary commended the net controls for doing a good job. Mary reported that the net was always covered.

OLD BUSINESS

WB9YPY requested that W9KKM, WNA Treasurer, bring the WNA Booster books to the nets so that Booster members can determine when their Booster dues are due. W9KKM said he would do that, and he will make up a list of WNA Boosters.

Sherm, W9NGT, reported on progress (or lack of progress) on trying to work something out with the Marian County Ragchewers Net (A Florida net) on the conflicts we have with them if the WSBN net runs a little long. Sherm reported that SM K9GDF has contacted the Florida SM with no results. Jim, W9AYK, suggested personal contact W4MAJ, manager of the Ragchewers Net. Jim reported that he, as BWN N/M has worked out some similar conflicts on the BWN.

Les, W9YCV, reported that Dave, N9VPZ, has 5 WNA manuals printed but does not know if he has delivered them to WNA Chairman Wayne Schanke, KE9VU, yet. Matter is tabled until the June meet-

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Wisconsin Nets Association Ltd.

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ing.

NEW BUSINESS

Acting WNA Chairman KA9KLZ inquired if the membership wanted to have the June WNA meeting at Stevens Point again. Lee, N9BDL, and several other members stated that Stevens Point would

be fine. A motion was made and seconded (BDL/FHI) to hold the June meeting at Stevens Point, in conjunction with the hamfest. Motion carried. The hamfest officials will be contacted and arrangements will be made. If possible the arrangements will be the same as in previous years. The date for the meeting is June 11, 1995. Time will be immediately following the WAPR meeting, about 11:00 am.

With no further business at hand, Acting Chairman Art Evans, KA9KLZ adjourned the On-the-Air Meeting at 1923Z, March 5, 1995.

Respectfully Submitted,
Art Evans, KA9KLZ, WNA Sec'y

WNA FINANCIAL REPORT, MAR 16, 1995

DATE	PAYEE	CREDITS	DEBITS	BALANCE
SEP 16 1994	BSSS(K9GU)	6.40	BAL OCT 1 1994	134.26
OCT 1 1994			W9YCV BOOSTER DUES 4.00	
OCT 23 1994	KA9KLZ	12.44		
	(supplies etc)			
OCT 23 1994	STATE OF WIS	10.00		
	(corpn dues)			
NOV 3 1994			W9NGP BOOSTER & BSSS	9.50
NOV 3 1994	BSSS(W9NGP)	6.40		
JAN 13 1995	KA9KLZ	12.63		
	(supplies etc)			
MAR 1 1995			WB9YPY BOOSTER DUES	20.00
MAR 4 1995			W9UW BSSS & 1.60 WNA	10.00
MAR 8 1995			WD9FRI BSSS & WNA	15.00
MAR 8 1995	BSSS W9UW	16.80		
	& WD9FRI			
MAR 12 1995			W9AYK BSSS & DUES	12.40
MAR 12 1995			W9KKM WNA DUES	4.00
MAR 14 1995			NS9Q BSSS & DUES	12.40
MAR 14 1995			WC90 DUES	4.00
MAR 14 1995	BSSS W9AYK	16.80		
	& NS9Q			
MAR 14 1995	CASH ON HAND	144.09		
TOTALS		225.56		225.56

RESPECTFULLY SUBMITTED BY FRED W BECKER, W9KKM, TREAS WNA

OFFICIAL PUBLICATION OF CENTRAL WISCONSIN RADIO AMATEURS, LTD.

At University of Wisconsin, Stevens Point

WATTS SNOO



WB9QFW 2-Meter Repeater 146.07.67 and Club Station

P. O. Box 923 • Plover, WI 54467

MINUTES OF MEETING APRIL 12, 1995

President Lori Jasper, KA9ZGD, called the meeting to order at 7:33 p.m. The program this evening was given by Mike Pagel, KA9LAQ. Mike gave a talk on grounding. Mike had to have repairs done to his rig, so he talked about how to properly ground equipment. He had several handouts for everyone to take home on grounding tips.

Before the program, Lori announced the raffle tickets were ready to be picked up. There was a sign-up sheet so people could sign up for taking the tickets. The rest of the tickets would be mailed to members. She sent around a sign-up sheet for the Monday night net. There are still a few open spots for net control so please sign up. Also, sign-up sheets for shirts was passed around. This was the last call for ordering shirts. Also, she sent around a flyer called the N.E.W. Spotter News. Lori said we are still looking for an EC and if anyone is interested they can indicate it on the net control sign-up sheet.

Mary Eiden, KA9FAS, reported she remembered to have our meeting notice put in the paper. She also said she was informed that in the last minutes she spelled Rich Meier's name incorrectly. It will be noted in the next minutes as printed in *Watts Snoo*.

Lori, KA9ZGD, gave the treasurer's report for Joe Larson, N9JW, as he was next door teaching General Classes. The treasure's report was approved as read.

Bob Baird, W9NN, reported .985 is working well. He said he hears people passing through the area using it. Mike Pagel, KA9LAQ, reported .670 is still being worked on by N9MEB. Lori, KA9ZGD, announced Scott Jasper, NE9U, is planning to have a fox hunt at the Swapfest. She also reported that Scott said the Wisconsin QSO party went okay but not as well as they hoped. The reason was the solar flares caused bad conditions.

Mike, KA9LAQ, reported that he heard a lot of stations on. He said a fair number of people commented on the fact that there were so many from Portage County. He said that it will be nice to see

the CWRA listed among the score listings. Gene Kroll, KE9MA, said he was at the club station with Joe, N9JW. He also said when he got home he called the club station so they could get a contact from Wood County.

Lori, again announced that Art Wysocki, N9BCA, would be sending raffle tickets in the mail to those who didn't pick them up at the meeting. Art has several dealers coming. It looks like we are in for a terrific swapfest. Lori stated Art said **WE NEED HELP SETTING UP AT 6 A.M. SHARP!** Flyers were available for pick up as well.

Lori reported that Joe, N9JW, said we will be getting Registration Forms from the Wisconsin Special Olympics in the mail. We should fill them out and return them to either Joe or send them into WSO. If you don't fill it out, you must register at the games. All volunteers must register with WSO. Joe is also teaching General Classes on Wednesday nights.

Frank Guth, W9BCC, announced that Tornado Awareness Week is coming up and that on April 27, 1995 there will be a Tornado Simulation. Now would be a good time to check out your mobile equipment to make sure that it will be reliable when you will need it the most. Also, remember, **WE ARE LOOKING FOR AN EC!**

The meeting adjourned at 8:40 p.m.

The next meeting will be Wednesday, May 10 at 7:30 p.m. in the Stevens Point Courthouse, Conference Rooms A and B. There will be a tour of the E. G. Office and a Doppler radar presentation by a Green Bay NWS meteorologist.

ATTENDANCE

Frank Guth	W9BCC
John Kalina	KA9DJA
David Tamres	KA9IIF
Deb Kroll	N9EIL
Gene Kroll	KE9MA
Mike Eiden	WD9JID
Mike Pagel	KA9LAQ
Bob Baird	W9NN
Joe Omernik	N9CGV
Lori Jasper	KA9ZGD
Mary Eiden	KA9FAS

Taylor County Area Amateur Radio Club

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N9FZD, Medford, at 715-748-3868 nites.

Saturday, June 3rd: Cancer Strides Walk-A-Thon, in Medford. Starting at 9 AM. If you can help with this event, please contact Mike Schoenfuss, N9GHZ, at P.O. Box 401, Abbotsford, WI 54405 or on the Medford or Neillsville repeaters.

CONGRATULATIONS TO:

* Jessica Winzenried, KB9AMX, Colby, who was named to the 3rd quarter "A" honor roll at Colby High School. She is a Senior, and the daughter of Marc

Winzenried, WA9ZCO.

* Tom Sahr, N9MED, Lublin, who was one of eight students from Gilman High School who qualified for state competition at the district forensics contest in Eau Claire on March 21, by scoring 20 points or better on a 25-point scale on two of the three required performances. Tom is the son of Jim Sahr, N9IFA.

* Jessica Winzenried, KB9AMX, Colby, who received first place in the Impromptu Speaking category in competition at the State Future Business Leaders of America (FBLA) Leadership Conference in Green Bay, April 6-8. She has earned the right to compete at the FBLA National Leadership Conference to be held in Orlando, FL, July 1-4. Jess is a Senior at Colby High School and the daughter of Marc Winzenried, WA9ZCO.

Mancorad Radio Club

Eric Rugowski, WD9IAB, Secretary

P.O. Box 204 • Manitowoc, WI
54221-0204



2-Meter Repeater: 146.01 Input/146.61 Output

MEETING MINUTES APRIL 12, 1995

Club President Barney, N9XER, called the April meeting to order at 7:30 pm. Discussion about several important club related issues then commenced.

A. Field Day - Yogi, WN9Q, won't be able to supervise this year's Field Day operations, due to other commitments that he has at the same time as Field Day. He will be able to help with assembling the required paperwork for Field Day (permits for operating after hours at Silver Creek Park, contest forms, etc.). Therefore, any club members who are interested in helping run the club's Field Day effort (or have any ideas about how to help run it), should contact Barney, N9XER or Eric, WD9IAB.

B. Bike Races - For the second year in a row, MANCORAD has been asked to help out with the bike races that will be run in downtown Manitowoc. The date for the races is Sunday July 9, and they will probably run from 11 a.m. to 5 p.m. The

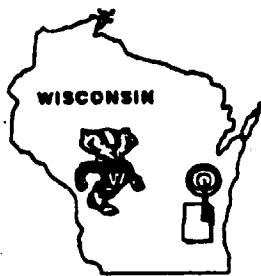
club voted to help out again with the races, as long as it is to provide communications for the race organizers, but not act as traffic controllers along the race course.

C. Repeater Upgrades - Red, N9GHE, informed the club about the cost of the S-COM 7K repeater controller that will be purchased for the club's repeater. He also mentioned that this cost does not include a PL board, control cables, or a Polyphaser (for lightning protection). These items would have to be purchased separately, at additional cost. Since these items are considered to be important elements of the club's repeater upgrade program, the club voted to approve funds for the purchase of these items. Since there is no word about when the county plans to have upgrades on the ground system at the repeater site finished, the purchase of the Polyphaser will be given a lower priority (due to its very limited usefulness with the present ground system at the repeater site) for being purchased, than the other repeater

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Washington County Amateur Radio Club

Tom Waldschmidt, N9LZW,
Secretary
465 Elder Lane
Allenton, WI 53002-9799



Club Repeater: 146.73 MHz

MONTHLY MEMBERSHIP MEETING • APRIL 13, 1995

The April membership meeting of the Washington County Amateur Radio Club was called to Order at 7:30 p.m. on April 13 by President Walt Gossfeld, N9LLS. There were 21 members and one guest present.

The secretary's report was read by Tom, N9LZW. Motion to approve the Secretary's Report made by Kevin, N9LTH, and seconded by Bill, N9IBU. Motion carried.

The treasurer's report was read by Dave, KA9RNU. Motion to approve the treasurer's report made by Peggy, WB9RWV, and seconded by Kevin, N9LTH. Motion carried.

Repeater Committee Report was given by Sherm, W9NGT. Sherm explained that he needed to purchase 48 ft. of Belden 8238 to rework the antenna.

Peggy, WB9RWV, stated that there is a new business near AES that makes vinyl banners for \$35.00 to \$65.00. Peggy also

gave the club three Kantronics computer disks which have packet related articles on them. These can be copied as needed.

Tom, N9LZW, stated that the club jacket order was not ready prior to this meeting.

NEW BUSINESS

Walt, N9LLS, asked if there were any volunteers for Field Day Chairman. Walt broke the silence by saying that he would order the packet from the ARRL.

Peggy, WB9RWV, said that AES would be hosting Superfest '95 on May 19 and 20. Major manufacturers, such as Yaesu, Kenwood, and Icom, will be present at AES to explain their products. There will be seminars on topics such as lightning protection. There will also be club tables available. It was decided that the club will set up an information table at the event. Gary, W9XT, will be at the event for both days, and can represent the club

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Mancorad Radio Club

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items being purchased.

D. Sister Club in Sri Lanka - John, NZ9Z, informed the club about the status of the effort to set up a satellite station at our sister club in Sri Lanka at St. Joseph's Technical College. John has gotten several northeast Wisconsin ham clubs to donate funds towards the purchase of a radio for this satellite station. The club voted to also donate funds towards the purchase of the ICOM IC820 that will be used as the satellite station. The radio should be in Sri Lanka by the second week of May, and the satellite station should be up and running shortly afterwards.

E. Hamfest - Treasurer Glenn, AA9MT, informed the club that most of the details pertaining to running the club's hamfest in May have been worked out. But, people are needed to help out with cooking food the club sells at the hamfest. Club members interested in helping with cooking the food, should get in touch with Glenn.

Also, any members interested in buying tickets, in advance for the club's hamfest, are also asked to contact Glenn.

F. Radio Kits - Howard, KE9YD, suggested that the club should look into purchasing kits to build crystal controlled QRP CW transmitters. This would help members to get their feet wet in constructing kits, and also help provide them with low cost transmitters. Several shortcomings of these transmitters were pointed out: the crystal control that they use (for ease of construction) limits your ability to move to a clear frequency (since you may not have a crystal for that frequency); also a receiver that receives CW is needed (denying the use of many basic low cost short-wave receivers). Kuby, N6JSX suggested that the idea was a good one, but that maybe the kit should be for 2-meter FM, since many of the club's new members are no-code Techs. Also, there are many low cost scanners, and multiband receivers that can be used to receive 2-meter FM. At the present, this idea is on hold. Any ideas as which idea seems to be the best? Both have their merits (one is easier to operate [the FM kit], the other gives you the potential to brush up on CW skills; and possibly have QSOs with hams hundreds of miles away. Should this idea be aban-

doned? Any input on this issue would be appreciated.

The club also voted to approve the treasurer's report as read by Treasurer Glenn, AA9MT, and the minutes for the March meeting that were printed in "Smoke Signals". Clarke Cooper, K8BP, was also accepted for membership by the club. Welcome to the club, Clarke!

Last but not least, after the meeting adjourned at 8:30 p.m., Kuby, N6JSX gave a talk to interested club members, on the use of the club's new PBBS. Recently the software used for the PBBS, was changed to eliminate operational glitches that have been noticed recently. The changes have given the PBBS additional capabilities. But, as Kuby showed during a demonstration for using the bulletin board, some of the commands are now different. Other than this one thing, the new software isn't that much more difficult to use than the old software. Thanks for the informative talk, Kuby!

Respectfully submitted:
Eric Rugowski, WD9IAB,
MANCORAD Secretary

Meeting Attendees

Eric	WD9IAB
Jeff	N9XEV
Kuby	N6JSX
Dave	N9UGT
Terry	N9PZT
Sharline	
Dick	N9QFY
Bill	N9XEZ
Gene	N9UGA
Chuck	N9WUN
John	NZ9Z
Dan	N9FVZ
Chuck	W9BZU
Gene	WB9DQD
Ken	K9HAG
Mary	KB9GOY
Clarke	K8BP
Ken	WB9OBX
Ron	WS9X
Janice	N9TQZ
Howard	KE9YD
Clancy	KB9ECW
Steve	N9PBL
Bob	KB9INK
Bill	K9DUX
Paul	N9QFX
Len	N9QFO
Red	N9GHE
Glenn	AA9MT

Racine Megacycle Club

Alex Voss, N9RGX, Secretary

3333 Standish Lane • Racine, WI 53405

RACINE MEGACYCLE CLUB MEETING • APRIL 10, 1995.

The meeting was called to order by president Paul Smedegaard, N9RGW. Those present were asked to introduce themselves with name and callsign. 33 hams were present.

The minutes were accepted as printed in the *Badger State Smoke Signals*.

Dave Geschke, AA9HL, gave the financial report.. It's right where we left it.

OLD BUSINESS

The Return of the Jackets: Well first off, congratulations to Bob Jensen, W0WLN, who is no longer W0WLN. He now has his slash through his zero on his jacket.

A question was brought up about the money returned from the jacket fiasco. After much discussion the club purchase a new, or like new HF, transceiver. A motion was made but not seconded to table the previous motion.

After much extensive and exhausting debate, the motion failed when the president, Paul Smedegaard, N9RGW, broke the tie vote with a "nay" giving his reasoning, that the committee can come back to the club with their proposal for the purchase of a rig.

Bob Jensen, W0WLN, mentioned that the Lakeshores Chapter of the American Red Cross will be taking in Walworth County, which formally had no Red Cross Chapter of its own. His concern was that during emergencies the Red Cross will need communications between the three county area, and that VHF communications might not be reliable enough.

Ray Wolfe, WB9LST, mentioned that on April 12, there will be a tornado spotters seminar at the Kenosha County Highway Dept. on Hwy 45 and 50 at 7:00 p.m. It is open to any one who is interested.

Cheryl Miller, WS9P, mentioned that the next RMC sponsored Hidden Transmitter (FOX) hunt will be held on Friday, April 28. The start point will be at Re-

HAM CALENDAR

Courtesy
Racine Megacycle Club

May 6	Hamfest at Cedarburg
May 8	RMC Meeting
May 13	Hamfest at Manitowoc
May 26	RMC Fox Hunt

Jun 11	Hamfest Stevens Point
Jun 12	RMC Meeting
Jun 23	RMC Fox Hunt
Jun 24	FIELD DAY!

Jul 8	Hamfest at Oak Creek
Jul 10	RMC Meeting
Jul 15	Special event station *
Jul 21	RMC Fox Hunt
Jul 22	Special event station *
Jul 30	HAMFEST RACINE!!

Aug 14	RMC Meeting
Aug 18	RMC Fox Hunt
Aug 26	Hamfest at Onalaska

Sep 11	RMC Meeting
Sep 15	RMC Fox Hunt

Oct 6	RMC Fox Hunt
Oct 9	RMC Meeting

* Racine Megacycle Club, W9UDU, operating during Racine's Salmon-A-Rama.

gency Mall (Hwys 31 & 11 in Racine) at 7:10 p.m. on the west side by J.C. Penney's (look for the atrocious antennas on the cars). Anyone interested is invited to attend. The hunt area is from Lake Michigan to the east, Highway 45 to the west, the Racine/Milwaukee County line to the north and the State line to the south. Talk-ins on W9UDU/R 147.27+ For more information on future FOX HUNTS write to: RMC, P.O. BOX 3 Racine, WI 53401.

The meeting was adjourned at 8:50 p.m.

There was no program for the evening.

Respectfully submitted:
Alex Voss, N9RGX
Secretary

Quarter Century Wireless Association Southern Wisconsin Chapter 162

Larry McCalvy, WA9JMO
5400 Six Mile Road
Radne, WI 53402



Twenty-one members, spouses and friends gathered at the Meadows Restaurant in Franksville on Sunday, April 23rd to celebrate the eighth anniversary of our Chapter's founding. After much rag chewing and a very fine meal, the attendees enjoyed a travel question and answer session, augmented with pictures and brochures, of Joyce Bellgraph's (XYL of Steve, K9ZL) recent trip to Australia, and Chuck, W9GKM and Marcy Knotek's 1994 summer trip to Europe. Makes one want to grab one's passport and head to the travel agent to book an exotic tour. Oh well, maybe next year, or the year after.

We would also like to welcome back our two snowbirds, Art, W9VSO, and Squeeks, N9VKF, Vahovius after four months of basking in the warm Alabama sunshine.

Larry, WA9JMO, and Wendy, N9-PAC, McCalvy, joined brothers (in-law), sisters (in-law) and two nieces -- a party of ten for a seven-day Caribbean cruise out of San Juan early in April. All had a wonderful time, except for a slight mishap. Mister swift sure-footed WA9JMO was trying to run off some of the calorically high shipboard food that was trying to take up residence on his body when a large piece of concrete jumped up, struck him on the foot and forced his body to the ground. His left shoulder was the first part of his body, other than his feet, to make a

personal introduction to the island of St. Barts. The rest of the body quickly followed. A trip to the Orthopedic clinic for X-rays and one to the hospital for an Arthrogram confirmed a rotator cuff tear was the culprit causing the pain. Corrective surgery appears to be a distinct possibility in the very near future.

During the last week in April, Spencer Clope, W9LDH, traveled to Madison for a four-hour hearing test and examination which was to culminate with ear surgery on or about the 24th of April. Details to follow.

Our May meeting will be held at the South Port Restaurant in Kenosha on Monday, 15 May 1995 beginning at 7:30 p.m. Meeting agenda and directions can be gleaned off the weekly net -- Thursdays, 9 p.m., 147.270 MHz.

On Wednesday, the 26th of April, Chuck Knotek, W9GKM, Bill Komistra, W9VZ, Bob Jensen, W0WLN, and Larry McCalvy, WA9JMO, will have inventoried the Amateur Radio estate of Olin Fox, K9AKG (SK December 1994) and made arrangements to liquidate the equipment for his heirs.

We are still looking for a few good men and women to assist in our Amateur Radio demonstrations with the 175 fifth-grade students from Gifford Elementary

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Red Cedar Repeater Association, Inc.

Steve Hart, KA9OMC, Secretary

E616 810th Avenue

Knapp, WI 54749

2-Meter Repeater: 146.01 Input/146.61 Output

Greetings, RCRA sponsors and guests.

The following were in attendance at the March 22 social hour, held in Menomonie:

Melvin Stang, KB9AGC
Ken Reetz, KA9PVY
Glenn Thompson, N9TTV
Steve Hart, KA9OMC
Jeff Cole, N9PPE
Leroy Dick, N9RSU
Bill Duncan, K9KGB

Balance on the account at meeting time was \$872.00. Financial reports, including a Wisconsin Association of Repeaters newsletter with repeater listing, was handed out to the attendance.

Please make welcome our new sponsor, Jim Fittz, N9LIJ, from Eau Claire. Jim teaches history, and is often heard on the Eau Claire Amateur Radio Club's Sunday Night 2-Meter Net, and is one of their regular net controls.

Jeff, N9PPE, and Jim, N9LIJ, talked to our group about the recent "Mission Eau Claire" projects, incorporating parents with their children in various learning seminars at many of the schools, which eventually included taking a test for Amateur Radio. Jeff also displayed a twinlead

2-meter antenna that he made and has been using as part of the whole project.

Glenn, N9TTV, mentioned that he is looking to upgrade his VHF/UHF setup. Ken, KA9PVY, stated that he is busy with his new computer and various software packages. Leroy, N9RSU, updated the group on the progress on his 440 MHz repeater. A new power amplifier board has been installed, and a new time and date are being considered for the net.

Scot Thompson, WB0WOT, has informed us that the June WAR meeting will be held in Cadott. This is an opportunity for all persons operating or participating on repeaters to attend a rare occasion. Discussion about our protest with Minnesota's council regarding their plan to revamp the link frequencies on 440 MHz will be one of the topics covered.

The last spring social hour will be held on April 25 in Menomonie. Social hours will resume on September 26. Please consider sending us interesting tidbits of your summer, including pictures for our articles.

73.

Steve Hart, KA9OMC
RCRA Secretary/Treasurer

Washington County Amateur Radio Club

Continued from page 11

if no one else is able to help out. There will be many prizes with the top prize being a "get away" to Las Vegas.

Dave, KA9RNU, mentioned a suggested money-making project that he had received in the mail. More silence.

Larry, WB9BVB, made a motion that the club hold its Annual Picnic on August 5, 1995 at Riverside Park in West Bend with a rain date of August 12. Dorothy, K9BBL, seconded the motion. Motion carried. Tom, N9LZW, will make reservations.

There was a motion by Sherm, W9-

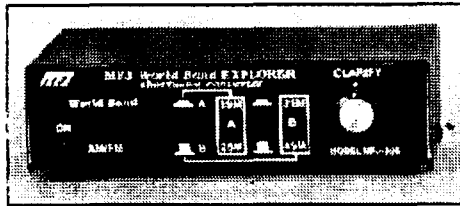
NGT, seconded by Kevin, N9LTH, to adjourn the meeting. Motion carried.

Prior to the meeting Tom, N9LZW, showed films on tornado spotting and made spotters guides and information available. Following the meeting, Tom, showed an ARRL film called "At Any Moment" and briefly discussed ARES and RACES in Washington County. He then showed another film called "Chasing the Tornado".

May Breakfast Schedule

May 06, 1995, 9:00 a.m.,
Jimmy's in Jackson
May 13, 1995, 9:00 a.m.,
Fay's in West Bend
May 20, 1995, 9:00 a.m.,
Slinger Inn in Slinger
May 27, 1995, 9:00 a.m.,
Parkside Cafe in Jackson

NEW PRODUCTS



MFJ-306 World Band Explorer Mobile Shortwave Converter

MFJ Enterprises, Inc. announces the MFJ-306 World Band Explorer Mobile Shortwave Converter .. only \$79.95.

MFJ-306 World Band Explorer allows you to visit with the world while you drive for only \$79.95.

A wonderful cultural experience awaits you. Purchase the MFJ-306 and you'll open up a whole new world. The whole wide world will be available for your fascination and interest!!

This MFJ World Band Explorer will convert your AM car radio into a World Band Shortwave receiver at the push of a button.

Hear late-breaking world news as it happens!

Listen to an exciting soccer match from Deutschland!

Enjoy a concert from Vienna!

Perhaps an English talk show!

Learn about new cultures from a wide-variety of different nations!

These and many other interesting, informative programs on the shortwave WorldBands will soon be at your minds side waiting for you to tune in and enjoy.

Unlike local FM and AM radio stations that fade out after a few miles and broadcast the same ol' monotonous programming, you will soon be enjoying thrilling World Band shortwave stations throughout an entire trip, day or night, with your purchase of the MFJ-306 World-Band Explorer! You'll have programming that cannot be found on AM, FM, or even cassette tapes.

The MFJ-306 World Band Explorer will monitor the entire 19, 25, 31, and 49 Meter international shortwave broadcast bands. You'll hear exciting programming from stations all over the world at various times of the day and year—including: Europe, Africa, Middle East, Asia, Australia, and North and South America.

The World Band Explorer is very easy to install. You just unplug your car radio antenna, and plug it into the MFJ-306. Then you'll insert the MFJ-306 cable into your radio antenna jack and connect 12 VDC.

The World Band Explorer is easy to use too. Push a button to select a band and then tune into exciting World Band stations on your car radio. The selections are endless. You'll never run out of enjoyable listening entertainment on those long trips with screaming children or even longer business trips.

The MFJ-306 works on all car radios, even newer digitally functioned dials. A built-in clarifier knob will let you tune in World Band stations lodged between standard AM stations on newer digital radios.

The World Band Explorer measures just 5 x 1 1/2 x 3 1/2 inches, which is small enough to go anywhere in your vehicle and it has a push button to select World Band reception or your AM/FM radio. It gives you excellent sensitivity and selectivity when used with your automotive receiver, and has a standard Motorola antenna plug and jack.

What have you been missing on those long boring drives while listening to those boring, unintelligible AM/FM radio stations? Ever wanted to listen to the Russian equivalent to Rush Limbaugh or the Hungarian Madonna? Now is your chance to open up a whole new world, learn new cultures and give your children educational experiences that can't be matched in school!

The MFJ-306 WorldBand Explorer Mobile Shortwave Converter comes with MFJ's now famous "No Matter What" one year unconditional guarantee.

For more information or to order, contact any MFJ dealer or MFJ Enterprises, Inc., P.O. Box 494, Mississippi State, MS 39762 or call (601) 323-5869, Fax: (601) 323-6551, or order toll-free at 1-800-647-1800.

- MFJ news release

CQ Introduces The NEW Shortwave Propagation Handbook

(Hicksville, New York) -- Every ham who's active on HF, and every serious shortwave listener, needs to understand propagation, the basis for all long-distance radio communication. For nearly 50 years, CQ magazine has been a leader in providing amateurs with timely information and education in the latest propagation forecasting techniques. And, since *The Shortwave Propagation Handbook* was first published in 1979, thousands of hams have used this book as a basic reference tool.

CQ Communications, Inc., is proud to introduce *The NEW Shortwave Propagation Handbook*, by George Jacobs, W3ASK, Dr. Theodore J. Cohen, N4XX, and Robert B. Rose, K6GKU. Completely revised and updated, this new volume explains the theory behind ionospheric propagation, the sunspot cycle and the science of propagation predicting; shows you how to make your own forecasts and even looks at unusual propagation on VHF.

The authors are each propagation experts in their own right. George Jacobs, W3ASK, is a legend in the field of shortwave communications, both amateur and commercial. He has been CQ magazine's propagation editor since 1951, and helped launch the amateur satellite program. He is a Life Fellow of the IEEE and the Radio Club of America, and has received, among other honors, the Marconi Gold Medal Award for Engineering Achievement and the Jack Poppele Award for excellence in engineering.

Dr. Theodore J. Cohen, N4XX, has been involved in communications and electronics for over 40 years. A pioneer in many areas of Amateur Radio, he developed simplified techniques for preparing propagation forecasts, and is a prolific writer and syndicated radio broadcaster. He is a Senior Member of the IEEE and a Fellow of the Radio Club of America. Ted and George co-authored the original *Shortwave Propagation Handbook* in 1979, and its second edition in 1982.

Robert B. Rose, K6KGU, recently retired from a 30-year career with the Department of the Navy in which he was involved with a variety of experimental ionospheric measurement programs that led to the revision of many theories about the ionosphere. He was the co-developer of the MINIMUF HF Maximum Usable Frequency (MUF) prediction model that is the basis for many of today's computerized Hf prediction programs. This is his first book.

"As we approach the bottom of our current sunspot cycle and DX is harder to find," says CQ Publisher Richard Ross, K2MGA, "it's more important than ever for hams and SWLs to understand how propagation works so they can be in the right place at the right time when band openings do occur. *The NEW Shortwave Propagation Handbook* is a reference book that no active radio operator should be without."

CQ Communications, Inc. is a major publisher of magazines, books, videos and other materials for the ham radio, hobby and professional communications markets. Its product line includes *CQ-The Radio Amateur's Journal*, *Popular Communications*, *Communications Quarterly*, *Micro-Computer Journal*, *Electronic Servicing and Technology*, the annual *CQ Amateur Radio Equipment Buyer's Guide*, *CQ Beginner's Guide to Amateur Radio* and the *Popular Communications Communication Guide*, plus a wide selection of books, videos and specialty products. *The NEW Shortwave Propagation Handbook* retails for \$19.95 and will be available May 1. Advance orders may be placed with CQ's order desk at 1-800-853-9797, or faxed to 516-681-2926.

- CQ news release

STOLEN AMATEUR RADIO GEAR

Icom IC-3200A dual-band FM transceiver, s/n 003636. Realistic HTX-100 10-meter SSB/CW mobile transceiver, s/n 95018361. Also Motorola bag cellular telephone, s/n 82C69EDC. Taken April 18, 1995 from auto of Larry McCauly, WA9JMO, while parked at 18th and Wisconsin Ave., Milwaukee, between 4:30 p.m. and 7:30 p.m. Information about the breakin or current location of gear greatly appreciated. Please contact Larry at 5400 Six Mile Rd., Racine, WI 53402, or call 414-639-7327; FAX 414-639-3320.



SHEBOYGAN County Amateur Radio Club

Mike Musiel, KF9SJ, Secretary
N9001 Dairyland Rd., Cleveland, WI 53015

The April 11 meeting of the Sheboygan County Amateur Radio Club was called to order by Steve, KF9KZ. The SCARC meets at the Red Cross Building, 2032 Erie Ave., Sheboygan WI at 7 p.m. on the second and fourth Tuesday of the month. There is usually no general membership meeting in February, because of the Banquet, and July, because of Field Day.

CORRECTIONS

First this month, I need to make a couple of corrections. I managed to make two good mistakes in last month's column. I reported that there will be no general meeting in June, *this is in error*. There will be a general meeting in June; it is the July meeting that will not be held at the normal time. The July meeting will be held during Field Day.

The second item is a mix-up in the photo credits. I mistakenly reported the limbo and Ham of the Year award photos in last month's issue as being courtesy of Steve, KF9KZ; they were actually taken by Kurt Bruegl, N9ZMO. Sorry about that, Kurt.

MEETING SUMMARY

After club President Steve, KF9KZ, called the meeting to order, several items of business were discussed.

The club board and membership have agreed to auction off the excess antenna equipment by sealed bid. These bids will be opened at the April 25 board meeting.

Al, NF9R, has resigned as emergency coordinator, and the new E.C. is Francis, AA9LV. Thanks Al, for the time you have put into this important service, and congratulations to Francis. Anyone interested in helping out in this area should contact Francis. He can be reached via packet at

AA9LV@NF9R.EN53XS.WI.USA.NA.

Congratulations to Josh, N9YLR, for upgrading to Advanced Class.

Tune in to the Monday night net for information on upcoming Amateur Radio classes, or contact Tom, AA9BJ.

Speaking of Tom, he gave a nice demonstration of the capabilities of the propagation PC program that is included with the new ARRL *Antenna Handbook*.

After a short break, and the all important munchies, yours truly, Mike, KF9SJ, gave a introductory talk on the uses of DSP in Amateur Radio. I included basic descriptions of how the hardware and algorithms do their job, and what types of things you need to look for when shopping for a after market DSP filter for your rig. I hope I did not put too many club members to sleep!

NETS

NOTE! There are changes in the local net schedule. Please note the new info on the Sunday night packet net, and the Sunday morning 75 meter net.

Monday Night Fun Net. Meets at 7 p.m. local time on 147.06 MHz (+107.2PL). All with an Amateur Radio license of Technician class or higher are welcome to check in to this informal get together.

Monday Night 10 Meter Fun Net. Meets around 7:30 p.m., generally following the 2 meter net. The net meets on 28.350 MHz (USB), and all code class Amateur Radio operators are welcome to check in.

Sunday Night Packet Net. Meets at 6:30 p.m. local time on 144.99 MHz (AX.25, 1200 baud). The new log in procedure is connect to NF9R-8, then type T after you receive the node connect message.

Sunday Morning Coffee Clutch and G5RV Net. New time! The net now meets at 9 a.m. local time on 3.860 MHz (LSB). The net has moved up in time to reduce interference. All radio amateurs of General Class or higher are welcome to attend.

SCARC CALENDAR

Please note: All scheduled presentations are subject to change.

April 25: Next business meeting. All welcome to attend. Sealed bids opened and awarded on excess club equipment.

May 9: Social Meeting. Club office nominations. Presentation by Penny, N9-TCF.

May 23: Business meeting, 7 p.m. at Red Cross Building.

June 13: Social Meeting, last one before Field Day! Election of club officers. Presentation by Rob, KB9AFT.

Submitted by Michael J. Musiel, KF9SJ

7327. We always have a lot of fun and truly provide a needed service to the school.

73, Larry McCauly, WA9JMO

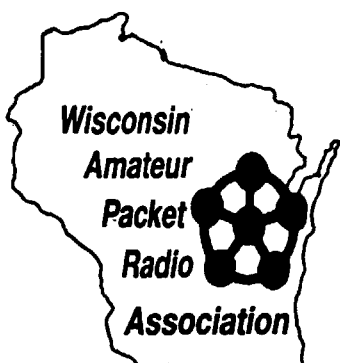
QSO Party Participants

We'd like to print your photo with the results next month! Send it to K9ZZ; see page 2 for the address.

QCWA Chapter 162

Continued from page 12

School on Monday to Wednesday, May 22-24, 1995. We will utilize the HF bands, two-meter repeater operations, packet radio and a QSL card display. If you would like to join us for a day, or even half a day, give me a call at 6390-



THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association (WAPR)

Ted Heilmann, N9LLT
921 8th Avenue • Grafton, WI 53024

Joel Papke, N9BQM, Editor, 7968 Ubinger, Pittsville, WI 54466

Great things happening

There are some great things going on done by some WAPR members and we would like to recognize just a few of them: Thanks to:

Andy Nemec KB9ALN for the excellent packet articles he has written for Badger State Smoke Signals. If you missed them, be certain to read up on his series beginning in March 1995 BSSS

Dan Bolander WB9TYT for his continuing contributions to digital communication and able assistance to WAPR. Dan has recently been circulating a series of internet compilations on MSYS and its operation.

Steve McDobough KE9LZ for his excellent efforts in frequency coordination. Steve is working hard to put together the directory for Wisconsin; to get information for a digital network map; and so Wisconsin coordinated packet nodes are listed in the ARRL repeater directory.

Ted Heilmann N9LLT, WAPR treasurer, who has done an excellent job the past two years of keeping an eye on WAPR funds and handling membership enrollment. Ted has kept WAPR fiscally sound.

Tom Landmann N9UDL for arranging the Madison WAPR meeting location and working with TCP/IP coordination in Wisconsin.

It is great to have such tremendous support from WAPR members and friends. The unsung part of this is that through their efforts, the rapid expansion of WAPR and the packet network in Wisconsin is benefitting all of us, members and non-members.

Don't forget to join us for the WAPR meeting at 10 a.m. Sunday June 11 at the Stevens Point swapfest. This is the annual meeting and will include several important votes. Please plan to attend.

Meanwhile, say hi to the guys listed above and thank them for their smashing efforts. Let them know they are appreciated!

73, Kent W9LZQ Chairperson WAPR

Using the Wisconsin Network - Part 3

By Andy Nemec, KB9ALN

In parts One and Two of this series, we explored what a network node is, how they are superior to Digipeaters, what they can do, and a little about how they do it. We learned about the concept of a Local Area Network (LAN), and how the network nodes link them together. Now we will explore more of what a network node does and a little bit of how to effectively use them.

First, consider what might be needed to do the job of connecting one LAN to another. We talked about the fact that nodes "talk" to each other, that they know that other nodes exist, and what other nodes they can "talk" to. How is this done? Well, nodes periodically "poll" each other to determine if a node is present and how good of a communication path exists between them. They exchange a series of packets, and take note of the time that it takes a given node to respond in this exchange. A formula is used to calculate what is known as a "Route Quality" number. The higher the number, the better the "Route Quality".

Different route quality standards are used at different node baud rates. For example, a 1200 baud 2-Meter node may have a route quality of 192, and this is considered good. A UHF Node operating at high speed (9600 baud) may have a good route quality of 225. Nodes linked by wire on the same node stack will usually have the maximum quality possible of 255.

Why is this important? Nodes use this information as a means to know how to route your packets through the network. How? Each node sends out a "Broadcast" to other nodes letting them know of other nodes it can reach and of the route quality. A typical "Nodes Broadcast" may look like this:

KE9LZ-5>NODES UI Pid = CF

Nodes Broadcast de WIGRB:

#446GB	N9CFN-4	via N9CFN-4	255
#APL4	KB9BYQ-6	via N9CFN-4	222
IPGB	N9CFN	via N9CFN	150
IPGRB	KE9LZ	via KE9LZ	150
IPNOK	N9NOK	via N9NOK	150
WICRIV	KE9LK-7	via N9CFN-5	185
WIDC	W9AIQ-1	via N9CFN-5	191
WIGB	N9CFN-5	via N9CFN-5	255

Now a look at the broadcast in a little detail. The top line looks pretty much like most packet "headers" on your monitor screen, with one exception. Notice that it says "PID = CF". This is the "Protocol Identifier". Remember when we talked about nodes speaking to each other in their own language? This is what is known as the "Net/Rom Protocol". This explains why most TNC's cannot interpret these broadcasts and why you may have never seen them. The above sample came from the Green Bay node with an alias of WIGRB.

Each route that is broadcast consists of a node alias followed by that node's call-sign, the route it uses to connect to it, and the route quality number. The first entry is a node that is connected by wire to

the node because it's route quality is 255 (the highest it can be). The second entry is connected reachable through a high-speed UHF radio link, of good quality, 222. The third, fourth, and fifth listings are of so-so quality, 150. The sixth and seventh listings are of medium-to-good quality and are reachable by a combination of a wire-linked node and VHF radio. The last listing is - you guessed it - wire linked to this node. Note that nodes WICRIV and WIDC are reached by way of WIGB.

By now you may be wondering why we have bothered to learn this information because you can't normally see the broadcasts. The answer to this is simple: You can see a portion of this broadcast by issuing the ROUTES or R command to a node you have connected to. You will not see all of the routes on the route table, only the ones that can be accessed directly by the node. This is useful information. It not only tells you that there is a path to a node, but how good it is. Like the rest of radio, not all routes are reliable 100% of the time, and this allows you to determine how to make a long-distance connection.

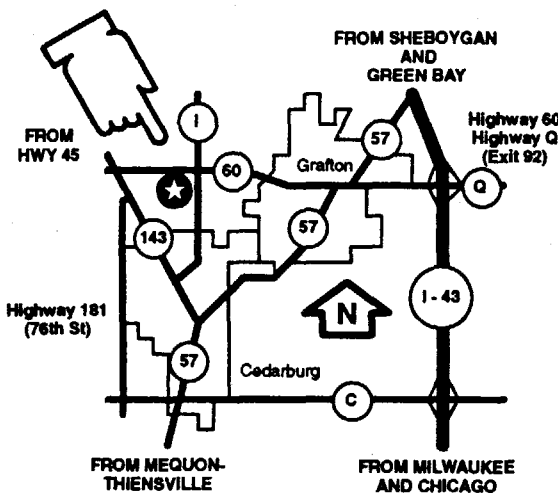
The "Routes" command is one of the more useful that can be given to a node. In the next installment, we will explore more of how a node works, and what commands you will find useful when you "Surf the Network". Until then, 73.

The OZAUKEE RADIO CLUB presents its 17TH ANNUAL
Radio and Computer

SWAPFEST CEDARBURG, WI

SATURDAY, MAY 6, 1995
8:00 AM to 1:00 PM

CIRCLE B RECREATION CENTER
Intersection of Highway 60 and County I



Amateur License exams will be administered between 9:00 AM and 10:30 AM. If you wish to pre-register, send a postcard with your name, call, address, telephone number, and license exam elements desired to:

Badger Examiners
c/o Gary Sharbuno, WI9M
5119 W. Willow Road
Brown Deer, WI 53223
(414) 355-0237

Bring the original PLUS a COPY of your current ham license plus another form of I.D.

WE RECOMMEND THAT TABLES BE RESERVED IN ADVANCE. For more information, call Jerry Walker, KB9IMH, at (414) 377-7468.

TALK-IN: 146.37/97 and 146.52

Selling permitted in assigned areas only. Please, no smoking in the swapfest area.

ADVANCE REGISTRATION FORM — 1995 OZAUKEE RADIO CLUB SWAPFEST

Please send the following tickets by return mail in the ENCLOSED SASE:



— advance admission tickets @ \$2.00 (\$3.00 at the door)

— 4-foot tables @ \$3.00

NOTE: All persons entering the swapfest must have an admission ticket.

NAME: _____ CALLSIGN: _____ PHONE: _____

ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

Mail with your check and a SELF-ADDRESSED STAMPED (BUSINESS SIZE) ENVELOPE to:
O. R. C. SWAPFEST COMMITTEE — W70 N1018 Hampton Ct. — Cedarburg, WI 53012



THE TESTPOINT

(continued from page 3)

RACINE, WI - BIG BOY TOY SHOW
 RHINELANDER, WI - NWARC SWAPFEST
 ROCKFORD, IL - RARC HAMFEST
 ROTHSCHILD, WI - WVRA HAMFEST
 SOUTH MILWAUKEE, WI - SMARC HAMFEST
 STEVENS POINT, WI - CWRA SWAPFEST
 WAUKESHA, WI - KMRA SWAPFEST
 WAUKESHA, WI - MIDWINTER SWAPFEST
 DUBUQUE, IA - HAMFEST

See the Swapfest column for additional information and contact persons.

GREAT RIVER AMATEUR RADIO CLUB
 DUBUQUE, IOWA - ARRL/VEC

The Great River Amateur Radio Club VEs are now field stocked, which means retests can be given immediately.

Exams are held at 9:00 am at the Central Fire Station, 9th and Central in Dubuque. Use the basement entrance on 9th street. For more info, contact: Carl Clark, NOKAX, 145 Delicia Drive, Dubuque, IA 52001. Or call Carl at 319-557-9149. Talk-ins are on the 147.84/24, 147.63/03 and 146.295/895 repeaters.

LOVES PARK, IL

Third Saturday of every month. Northern Illinois Volunteer Examiners (W5YI VEC). Held at North Suburban District Library, 6340 North Second St. (Hwy. 251), Loves Park, IL. Contact: Dennis G. Eksten, W9SS, (815) 877-6768.

This section of Badger State Smoke Signals is available to publicize your Volunteer Examiner Amateur Radio license examination schedules. Please send us your schedules of dates, times, and locations that you will be conducting examinations and we will include the information here. Be sure to include contact address and any other necessary requirements. Information should be sent to K9EN at the address shown on page 2.

Yellow Thunder Amateur Radio Club

WB9FDZ (Original Club Call) • K9ODK (Robert L. Prine Memorial Call)

Raymond J. Matlosz, N9MLZ, Secretary

450 West 2nd Street • Reedsburg, WI 53959

The April 17, 1995 meeting of the Yellow Thunder Amateur Radio Club, Inc., was called to order at 7:40 p.m. by former club president Art Kleefisch, W9WSS.

The minutes of the last meeting, as published in the BSSS, were accepted. Jim Decker, WB9UQT gave the financial report.

OLD BUSINESS: The club's ham radio classes began April 4th at the Baraboo Civic Center and meets every Tuesday there and every Saturday at Klinkner Electronics in Sauk City. There have been about five students at any given class. Steve Schulze, N9UDQ and Bill Hommel, KA9QFJ reported on Youth Opportunity days held in Baraboo. Due to the cancellation of the balloon launch, a packet station was on display plus an indoor ATV. A video tape was also shown. Steve Schwoegler, WB9RNL said the program in the Dells is every other year so there was no program there this year.

NEW BUSINESS: Steve Schwoegler announced that the club would provide examiners. He hoped that this would be done four times a year in the Baraboo or surrounding communities. The first scheduled exam was set for Saturday June 3, 1995 at the Baraboo Public Library from 10:00 a.m. to 1:00 p.m. It was decided that Jim Paul, N9LKY and Bill Hommel would be the foxes at the next meeting, which would start an hour earlier in the parking lot of the Baraboo Civic Center.

A letter was read to the club for an offer from MBNA America for a credit card for members. Members present voted no to the offer. There were a couple of other announcements for software programs that were received by club members.

Buck night winner (loser) was John Hansel, WB9TIG.

Meeting adjourned at 8:23 p.m. and was followed by a video tape of the antenna installation of WMTV-TV, Channel 15 in Madison, WI. Narration for the video was done by Steve Schulze.

The next meeting will be held Wednesday May 18, 1995 at the Baraboo Civic Center following the fox hunt which will begin at 6:30 p.m.

EXAMINATION scheduled for Saturday June 3, 1995 at the Baraboo Public Library from 10 to 1.

Sincerely,

Raymond J. Matlosz, N9MLZ, Secretary

The following members and guest were present:

Steve Schulze	N9UDQ	Baraboo
Jim Paul	N9LKY	Meerimac
Art Kleefisch	W9WSS	Baraboo
Jim Decker	WB9UQT	Baraboo
Duane Grotophorst	WA9HKL	Loganville
Raymond Matlosz	N9MLZ	Reedsburg
Domenic Bianco	KA9QFK	Reedsburg
Gus Felt		Baraboo
Gerry Munson		Baraboo
Steve Schwoegler	WB9RNL	Wi Dells
George Gabay	N9QOR	New Lisbon
Dave Spearing	KB9CSW	Portage
Shane Buol		Baraboo
Billy Sears		Baraboo
Evan Glodell		Baraboo
Bob Baker		La Valle
Bill Hommel	KA9QFJ	Baraboo

Central Wisconsin Radio Amateurs, Limited

PRESENTS ITS 18th ANNUAL

SWAPFEST

SUNDAY, JUNE 11, 1995

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ADMISSION \$3.00

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 8:00 AM SWAPFEST OPENS
 9:00 AM ARRL FCC EXAMS***
 TBA WAPR MEETING
 TBA WNA MEETING
 12:30 PM PRIZE DRAWING
 1:30 PM SHUTDOWN

FOR SWAPFEST INFORMATION

ART WYSOCKI N9BCA

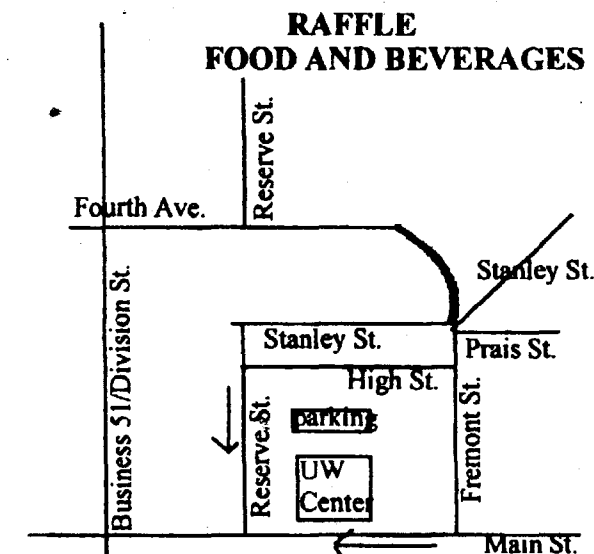
3356 APRIL LANE

STEVENS POINT, WI 54481

PHONE: (715) 344-2984

TALK-IN 07/67

WB9QFW/R



***EXAM PARTICIPANTS MUST BRING:

1) ORIGINAL LICENSE OR CSCE

2) PHOTOCOPY OF LICENSE

AND PICTURE IDENTIFICATION (FCC RULES)

3) CHECK TO ARRL/VEC FOR \$5.90

QUESTIONS ABOUT TESTING

JOE LARSON, N9JW, (715) 344-1182

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The Badger State Smoke Signals Shopper's Guide

SWAPFESTS



23rd ANNUAL MIDWINTER SWAPFEST

WAUKESHA EXPOSITION CENTER
WAUKESHA, WISCONSIN

1994 WINNERS
Karen M. Schneider, N9SVA, Appleton
Robert J. Gossman, N9HAD, Madison
Amy Tlachac, N9TLN, Wisconsin Rapids

Both Sponsored By
THE WEST ALLIS RADIO AMATEUR CLUB, INC.
P. O. BOX 1072 • MILWAUKEE, WISCONSIN 53201

HAM IT UP EVERY SPRING! MADISON SWAPFEST APRIL 2, 1995

Dane County Expo Center
Forum Building

Sponsored by MARA/WB9AER
P. O. Box 8890 Madison, WI 53708-8890

SOUTH MILWAUKEE AMATEUR RADIO CLUB SWAPFEST 95

July 8, 1995

(Held every July)

American Legion Park

Shepard Avenue • Oak Creek, WI

(414) 762-3235

P. O. Box 102

Extension 58

South Milwaukee, WI 53172

Fox Cities Hamfest

November 5, 1995

Starlite Club, Hwy. 55 north of Kaukauna

HAMFEST INFO:
Dan Vanevenhoven, N9LVS
2410 E. Newberry Ct.
Appleton, WI 54915
414-739-5101

EXAM INFO:
Larry Siebers, KD9IA
414-788-3823

Lakeshore Hamfest & Computer Swapfest

Manitowoc County Expo

Intersection of Hwys 42-151 and I-43 on Cty Highway R

Saturday, May 13, 1995

For more information, call:

Glenn, AA9MT: 414-684-7096
Red, N9GHE: 414-684-9097 (Nights)

ManCoRad Radio Club • P.O. Box 204 • Manitowoc, WI 54221-0204

HAMFEST COMPUTER EXPO ANTIQUÉ RADIO SHOW

SATURDAY, AUGUST 26, 1995

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Info: Art Wysocki, N9BCA
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Exams by Badger Examiners, c/o Gary Sharbuno,

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11448 N. Laguna Drive • Mequon, WI 53092

Kettle Moraine Radio Amateurs SWAPFEST

Sunday, October 15, 1995

Waukesha County Expo Center

Info: KMRA Swapfest

P.O. Box 411

Waukesha, WI 53187-0411

Red Cedar Repeater Association, Inc.

AUCTION

February 27, 1996 • 7:00 p.m.

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